



# A reconstruction of Edward Sang's table of mean anomalies, volume B (K47,1880)

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# Introduction

Edward Sang (1805–1890) was probably the greatest calculator of logarithms of the 19th century [4, 12, 13, 14, 26, 31]. Sang spent 40 years computing tables of logarithms and trigonometric functions, with the assistance from his daughters Flora (1838-1925) and Jane (1834-1878).

Sang’s purpose was in particular to provide fundamental tables, including for the decimal division of the quadrant. In 1890 [4, p. 189], he wrote that

In addition to the results being accurate to a degree far beyond what can ever be needed in practical matters, [the collection of computations] contains what no work of the kind has contained before, a complete and clear record of all the steps by which those results were reached. Thus we are enabled at once to verify, or if necessary, to correct the record, so making it a standard for all time.

For these reasons it is proposed that the entire collection be acquired by, and preserved in, some official library, so as to be accessible to all interested in such matters; so that future computers may be enabled to extend the work without the need of recomputing what has been already done; and also so that those extracts which are judged to be expedient may be published.

But Sang also worked on other tables,<sup>1</sup> and at the end of the 1870s, he turned his attention to Kepler’s equation. This equation relates two parameters of an elliptic motion, namely the eccentric and the mean anomalies. Sang found that the mean anomaly could be expressed as the sum of the areas of two circular segments [64], and that prompted him to construct a table of circular segments [49].

Solving Kepler’s equation required having a first estimate of the eccentric anomaly. In 1890 [4], Sang wrote that

In order to be able promptly to make this first estimate sufficiently near in every possible case, a table of mean anomalies from degree to degree of the angular position, and also from degree to degree of the angle of excentricity of the orbit, has been computed according to the decimal system.

Sang’s table of mean anomalies (K47)<sup>2</sup> reconstructed here<sup>3</sup> gives the mean anomaly as a function of the eccentric anomaly, as well as differences and variations. This table was briefly described in [70, 4].

In order to understand what this function actually tabulates, we need to recall the various parameters describing the elliptic motion. In figure 1,  $P$  is a planet orbiting on an elliptic path around the Sun  $S$ . From  $P$  we obtain point  $Q$  which is on a circle whose radius is the semi-major axis of the ellipse.  $A$  is the perihelion. The angle  $p$  is the eccentric anomaly, which Sang prefers to call “angle of position.”

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<sup>1</sup>A summary of Sang’s main tables and the ones I have reconstructed is given in a separate guide [35].

<sup>2</sup>National Library of Scotland, Edinburgh, Acc.10780/57.

<sup>3</sup>The present introduction is almost identical to that written for the twin volume K46 [50].

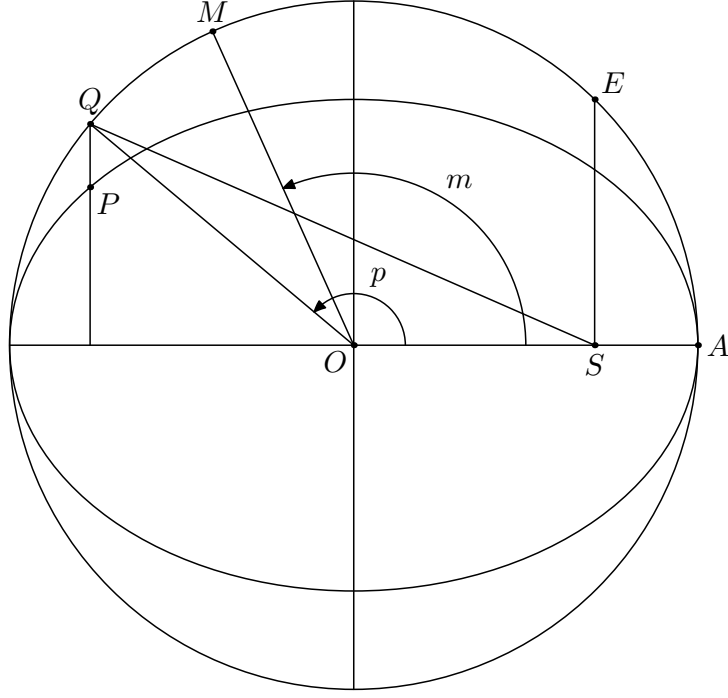


Figure 1: Eccentric and mean anomalies.

According to Kepler's second law, the segment  $SP$  sweeps equal areas in equal times. Consequently, this is also true of the segment  $SQ$ , as the circle  $AEMQ$  is a mere projection of the elliptic path. All areas are multiplied by a constant factor.

$Q$  has an uneven motion around  $O$ , and  $M$  represents the mean motion of  $Q$ , when both points start together at the perihelion  $A$ . The angle  $m$  is the mean anomaly.

The eccentricity  $\varepsilon$  of the ellipse is  $OS/OA$  and according to Kepler's equation, we have

$$m = p - \varepsilon \sin p$$

This assumes that  $m$  and  $p$  are expressed in radians.

Now, Sang writes  $e = \widehat{AE}$ , and we have naturally  $\varepsilon = \cos e$ . Therefore, Kepler's equation reads

$$m = p - \cos e \cdot \sin p$$

and

$$\frac{200}{\pi}m = \frac{200}{\pi}p - \frac{200}{\pi}\cos e \cdot \sin\left(\frac{200}{\pi}p\right)$$

If now  $m' = \frac{200}{\pi}m$  and  $p' = \frac{200}{\pi}p$  are the mean and eccentric anomalies expressed in centesimal degrees, we obtain

$$m' = p' - \frac{200}{\pi}\cos e \cdot \sin(p')$$

and this is the equation which was tabulated by Sang.

More precisely, Sang gives the values of

$$\theta - \frac{200}{\pi}\cos e \cdot \sin \theta \tag{1}$$

for  $e = 0^\circ$  to  $e = 99^\circ$  and for  $\theta = 0^\circ$  to  $\theta = 200^\circ$ .

Formula (1) might be considered as an extension of the formula for circular segments, which happens to be the case  $e = 0$ . Consequently, the table of circular segments is a subtable of the present table.

The values of the mean anomalies are given here to four decimal place of the degree and have been obtained from abridgements from the first volume (K46) [50] where they are given to 8 places.<sup>4</sup> In addition, Sang gives here the differences between values with the same eccentricity but differing by one degree of eccentric anomaly, and the variations between values with the same eccentric anomaly, but with eccentricities differing by one degree.

In the introduction to this volume, Sang writes

This table was copied from the preceding volume (A), leaving off the second group of four places; that is stopping at seconds of the degree, or millionth parts of the quadrant.

The differences and variations were filled in by subtraction.

The first part of the work was done from  $e = 99^\circ$  backwards to  $e = 50^\circ$ , as this arrangement was more convenient in the case of interruptions; the second part was done from  $e = 0^\circ$  to  $e = 49^\circ$ , so that the last page of the forty-ninth degree was the actual end. The paging, however, is continuous from  $0^\circ$  to  $99^\circ$ .

The tables K46 and K47 could be used to provide first approximations of the values of the eccentric anomaly, as explained in the description of volume K45 [49].

Sang's article on elliptic motions [65] also contains on six pages tables of anomalies for  $e = 10^\circ$ ,  $50^\circ$  and  $90^\circ$ . These tables give the mean and true anomalies to four decimal places and for the angles of position (eccentric anomalies) between 0 and  $200^\circ$ .

Sang also had the project of computing more extensive tables of true anomalies and radii, but after the completion of the tables of mean anomalies, he preferred to compute logarithmic sines and tangents [47]. He sketched the computation of true anomalies and radii shortly before his death for others to continue.<sup>5</sup>

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<sup>4</sup>In spite of this, this volume appears not to be exempt of errors. The values seem to be almost all correct, but for instance for  $e = 99^\circ$  and  $\theta = 135^\circ$ , Sang gives a mean anomaly of 134.1473 which is off by one unit of the last place. It should be checked whether volume K46 is also wrong for that value, or if the problem is merely one of rounding.

<sup>5</sup>See Sang's 1889 notice [69], also transcribed in my analysis of the computation of sines [36].

$e = 34^\circ$				$e = 35^\circ$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	127.7913	1.7004	.3033	0	.0000	.1473	.0000
161	129.4917	1.7001	.2966	1	.1473	.1477	.0084
162	131.1939	1.7156	.2899	2	.2950	.1480	.0166
163	132.9154	1.7231	.2832	3	.4420	.1487	.0250
164	134.6385	1.7304	.2764	4	.5917	.1495	.0332
165	136.3689	1.7374	.2695	5	.7412	.1505	.0415
166	138.1063	1.7443	.2625	6	.8917	.1518	.0498
167	139.8506	1.7510	.2555	7	1.0435	.1533	.0581
168	141.6016	1.7575	.2484	8	1.1968	.1550	.0663
169	143.3591	1.7638	.2413	9	1.3518	.1568	.0745
170	145.1229	1.7700	.2342	10	1.5086	.1590	.0828
171	146.8929	1.7759	.2269	11	1.6676	.1612	.0909
172	148.6688	1.7816	.2196	12	1.8288	.1638	.0992
173	150.4504	1.7873	.2123	13	1.9926	.1664	.1073
174	152.2377	1.7926	.2048	14	2.1590	.1694	.1155
175	154.0303	1.7977	.1974	15	2.3284	.1725	.1235
176	155.8280	1.8028	.1899	16	2.5009	.1759	.1316
177	157.6308	1.8075	.1823	17	2.6768	.1794	.1396
178	159.4383	1.8121	.1747	18	2.8562	.1831	.1476
179	161.2504	1.8165	.1671	19	3.0393	.1870	.1556
180	163.0669	1.8207	.1597	20	3.2263	.1912	.1635
181	164.8876	1.8247	.1517	21	3.4175	.1955	.1714
182	166.7123	1.8284	.1438	22	3.6130	.2001	.1793
183	168.5407	1.8320	.1361	23	3.8131	.2048	.1871
184	170.3727	1.8353	.1282	24	4.0179	.2098	.1948
185	172.2080	1.8385	.1204	25	4.2277	.2148	.2025
186	174.0465	1.8415	.1125	26	4.4425	.2202	.2102
187	175.8880	1.8442	.1046	27	4.6627	.2257	.2178
188	177.7322	1.8467	.0966	28	4.8884	.2314	.2253
189	179.5789	1.8490	.0887	29	5.1198	.2373	.2328
190	181.4279	1.8512	.0807	30	5.3571	.2433	.2402
191	183.2791	1.8531	.0727	31	5.6004	.2496	.2476
192	185.1322	1.8547	.0646	32	5.8500	.2561	.2550
193	186.9869	1.8563	.0566	33	6.1061	.2627	.2622
194	188.8432	1.8575	.0485	34	6.3688	.2696	.2694
195	190.7007	1.8586	.0405	35	6.6384	.2765	.2765
196	192.5593	1.8594	.0324	36	6.9149	.2837	.2836
197	194.4197	1.8601	.0243	37	7.1986	.2911	.2906
198	196.2798	1.8605	.0162	38	7.4897	.2986	.2974
199	198.1393	1.8607	.0081	39	7.7883	.3063	.3043
200	200.0000	1.8607	.0000	40	8.0946	.3141	.3110

Figure 2: Excerpt from Sang's table of mean anomalies (volume B). (Courtesy Edinburgh University Library)

## References

The following list covers the most important references<sup>6</sup> related to Sang’s table. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. I have added notes about the contents of the articles in certain cases.

- [1] Marie Henri Andoyer. Fundamental trigonometrical and logarithmic tables. In Knott [26], pages 243–260.
- [2] Anonymous. Note about Edward Sang’s project of computing a nine-figure table of logarithms. *Nature*, 10:471, 1874. [Issue of 8 October 1874. This note was reproduced in [60].]
- [3] Anonymous. Correspondance. *Comptes rendus hebdomadaires des séances de l’Académie des sciences*, 80(22):1392–1393, janvier-juin 1875. [Minutes of the meeting of the 7 June 1875.]
- [4] Anonymous. Dr Edward Sang’s logarithmic, trigonometrical, and astronomical tables. *Proceedings of the Royal Society of Edinburgh*, 28:183–196, 1908. [Possibly by Cargill Gilston Knott, reprinted in [23]. Reprints [70].]
- [5] Raymond Clare Archibald. Tables of trigonometric functions in non-sexagesimal arguments. *Mathematical Tables and other Aids to Computation*, 1(2):33–44, April 1943.
- [6] Raymond Clare Archibald. Arithmetic, logarithmic, trigonometric, and astronomical tables, computed, 1848, 1869–89, by Edward Sang, and his daughters Jane Nicol Sang, Flora Chalmers Sang, and presented in 1907 to the Royal Society of Edinburgh, in custody for the British Nation. *Mathematical Tables and other Aids to Computation*, 1(9):368–370, 1945.
- [7] Johan Julius Åstrand. *Hülfsstafeln zur leichten und genauen Auflösung des Kepler’schen Problems*. Leipzig: Wilhelm Engelmann, 1890.
- [8] Johann Karl Burckhardt. *Table des diviseurs pour tous les nombres du deuxième million, ou plus exactement, depuis 1020000 à 2028000, avec les nombres premiers qui s’y trouvent*. Paris: Veuve Courcier, 1814. [also published in [10] together with [11] and [9]]
- [9] Johann Karl Burckhardt. *Table des diviseurs pour tous les nombres du troisième million, ou plus exactement, depuis 2028000 à 3036000, avec les nombres premiers qui s’y trouvent*. Paris: Veuve Courcier, 1816. [also published in [10] together with [11] and [8]]

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<sup>6</sup>**Note on the titles of the works:** Original titles come with many idiosyncrasies and features (line splitting, size, fonts, etc.) which can often not be reproduced in a list of references. It has therefore seemed pointless to capitalize works according to conventions which not only have no relation with the original work, but also do not restore the title entirely. In the following list of references, most title words (except in German) will therefore be left uncapitalized. The names of the authors have also been homogenized and initials expanded, as much as possible.

The reader should keep in mind that this list is not meant as a facsimile of the original works. The original style information could no doubt have been added as a note, but I have not done it here.



- [10] Johann Karl Burckhardt. *Table des diviseurs pour tous les nombres des 1<sup>er</sup>, 2<sup>e</sup> et 3<sup>e</sup> million, ou plus exactement, depuis 1 à 3036000, avec les nombres premiers qui s’y trouvent*. Paris: Veuve Courcier, 1817. [each part was also published separately as [11], [8], and [9]]
- [11] Johann Karl Burckhardt. *Table des diviseurs pour tous les nombres du premier million, ou plus exactement, depuis 1 à 1020000, avec les nombres premiers qui s’y trouvent*. Paris: Veuve Courcier, 1817. [also published in [10] together with [8] and [9]]
- [12] Alexander Duncan Davidson Craik. Edward Sang (1805–1890): calculator extraordinary. *Newsletter of the British Society for the History of Mathematics*, 45:32–43, Spring 2002.
- [13] Alexander Duncan Davidson Craik. The logarithmic tables of Edward Sang and his daughters. *Historia Mathematica*, 30(1):47–84, February 2003.
- [14] Alexander Duncan Davidson Craik. Sang, Knott and Spence on logarithmic and other tables, 2016. [article written for a joint meeting of the James Clerk Maxwell Society and the British Society for the History of Mathematics in celebration of the 400th anniversary of the publication of John Napier’s *Mirifici Logarithmorum Canonis Descriptio*, 4th April 1614, Clerk Maxwell House, Edinburgh, <https://www.collectanea.eu/napier400memorial>]
- [15] Alan Fletcher, Jeffery Charles Percy Miller, Louis Rosenhead, and Leslie John Comrie. *An index of mathematical tables*. Oxford: Blackwell scientific publications Ltd., 1962. [2nd edition (1st in 1946), 2 volumes]
- [16] Laurent Fousse, Guillaume Hanrot, Vincent Lefèvre, Patrick Pélissier, and Paul Zimmermann. MPFR: A multiple-precision binary floating-point library with correct rounding. *ACM Transactions on Mathematical Software*, 33(2), 2007.
- [17] James Whitbread Lee Glaisher. On errors in Vlacq’s (often called Brigg’s or Neper’s) tables of ten-figure logarithms of numbers. *Monthly Notices of the Royal Astronomical Society*, 32(7):255–262, May 1872.
- [18] James Whitbread Lee Glaisher. Review of Edward Sang’s new table of seven-place logarithms. *The Messenger of Mathematics*, 1:77–80, 1872.
- [19] James Whitbread Lee Glaisher. On the progress to accuracy of logarithmic tables. *Monthly Notices of the Royal Astronomical Society*, 33:330–345, 1873.
- [20] James Whitbread Lee Glaisher. *Report of the committee on mathematical tables*. London: Taylor and Francis, 1873. [Also published as part of the “Report of the forty-third meeting of the British Association for the advancement of science,” London: John Murray, 1874. A review by R. Radau was published in the *Bulletin des sciences mathématiques et astronomiques*, volume 11, 1876, pp. 7–27]
- [21] G. Govi. Rapport sur l’utilité des tables de logarithmes à plus de sept décimales ; à propos d’un projet publié par M. Sang. *Atti della Reale Accademia di Scienze di Torino*, 8:157–170, 1873. [Reprinted in [58].]

- [22] James Henderson. *Bibliotheca tabularum mathematicarum, being a descriptive catalogue of mathematical tables. Part I: Logarithmic tables (A. Logarithms of numbers)*, volume XIII of *Tracts for computers*. London: Cambridge University Press, 1926.
- [23] Ellice Martin Horsburgh, editor. *Modern instruments and methods of calculation: a handbook of the Napier tercentenary exhibition*. London: G. Bell and sons, 1914.
- [24] Charles Hutton. *The compendious measurer; being a brief, yet comprehensive, treatise on mensuration, and practical geometry. With an introduction to decimal and duodecimal arithmetic*. London: G. G. and J. Robinson, 1800.
- [25] Cargill Gilston Knott. Edward Sang and his logarithmic calculations. [26], pages 261–268.
- [26] Cargill Gilston Knott, editor. *Napier Tercentenary Memorial Volume*. London: Longmans, Green and company, 1915.
- [27] Pierre Alexandre Francisque Lefort. Description des grandes tables logarithmiques et trigonométriques, calculées au bureau du cadastre, sous la direction de Prony, et exposition des méthodes et procédés mis en usage pour leur construction. *Annales de l’Observatoire impérial de Paris*, 4 (supplément):123–150, 1858.
- [28] Pierre Alexandre Francisque Lefort. Observations on Mr Sang’s remarks relative to the great logarithmic table compiled at the Bureau du Cadastre under the direction of M. Prony. *Proceedings of the Royal Society of Edinburgh, Session 1874–1875*, 8:563–581, 1875. [See [61] for Sang’s answer.]
- [29] Percy Alexander MacMahon. Sang’s seven-place logarithms. *Nature*, 97(2442):499, 1916. [Review of the 1915 reprint of Sang’s tables.]
- [30] National Library of Scotland. Inventory Acc.10780: Papers and manuscripts of Edward Sang, 2003. [6 pages, <http://www.nls.uk/catalogues/online/cnmi/inventories/acc10780.pdf>]
- [31] D. Bruce Peebles. Edward Sang. *Proceedings of the Royal Society of Edinburgh*, 21:xvii–xxxii, 1897.
- [32] Denis Roegel. A construction of Edward Sang’s projected table of nine-place logarithms to one million (1872). Technical report, LORIA, Nancy, 2010. [This construction is based on the specimen pages [58].]
- [33] Denis Roegel. A reconstruction of the tables of Thompson’s *Logarithmetica Britannica* (1952). Technical report, LORIA, Nancy, 2010. [This is a unpublished reconstruction of the tables in [76], not available for copyright reasons.]
- [34] Denis Roegel. The great logarithmic and trigonometric tables of the French Cadastre: a preliminary investigation. Technical report, LORIA, Nancy, 2010.
- [35] Denis Roegel. A guide to Edward Sang’s tables and to their reconstructions. Technical report, LORIA, Nancy, 2020.

- [36] Denis Roegel. Edward Sang’s computation of sines. Technical report, LORIA, Nancy, 2020.
- [37] Denis Roegel. Edward Sang’s computation of the logarithms of integers. Technical report, LORIA, Nancy, 2020.
- [38] Denis Roegel. Edward Sang’s steps for the construction of the logarithms of the primes (K1-K3). Technical report, LORIA, Nancy, 2020.
- [39] Denis Roegel. A reconstruction of Edward Sang’s table of logarithms of the first 10000 primes (K4). Technical report, LORIA, Nancy, 2020.
- [40] Denis Roegel. A reconstruction of Edward Sang’s table of logarithms of the first myriad of integers (K5). Technical report, LORIA, Nancy, 2020.
- [41] Denis Roegel. A reconstruction of Edward Sang’s table of logarithms of the second myriad of integers (K6). Technical report, LORIA, Nancy, 2020.
- [42] Denis Roegel. Introduction to Edward Sang’s table of logarithms to 15 places. Technical report, LORIA, Nancy, 2020. [This document is supplemented by 90 volumes of tables, as well as a volume gathering the entire table.]
- [43] Denis Roegel. A reconstruction of Edward Sang’s auxiliary table for logarithms of almost unitary values (K39,1884). Technical report, LORIA, Nancy, 2020.
- [44] Denis Roegel. A reconstruction of Edward Sang’s canon of sines (K40/1,1876). Technical report, LORIA, Nancy, 2020.
- [45] Denis Roegel. A reconstruction of Edward Sang’s canon of sines (K40/2,1877). Technical report, LORIA, Nancy, 2020.
- [46] Denis Roegel. A reconstruction of Edward Sang’s canon of sines (K41-K42,1881). Technical report, LORIA, Nancy, 2020.
- [47] Denis Roegel. A reconstruction of Edward Sang’s table of logarithmic sines and tangents (K43,1888). Technical report, LORIA, Nancy, 2020.
- [48] Denis Roegel. A reconstruction of Edward Sang’s table of sines in degrees (K44,1879). Technical report, LORIA, Nancy, 2020.
- [49] Denis Roegel. A reconstruction of Edward Sang’s table of circular segments (K45,1879). Technical report, LORIA, Nancy, 2020.
- [50] Denis Roegel. A reconstruction of Edward Sang’s table of mean anomalies: volume A (K46,1880). Technical report, LORIA, Nancy, 2020.
- [51] Ralph Allen Sampson. Logarithmic, trigonometrical, and astronomical tables: forty-seven quarto volumes in manuscript (1848 to 1890). By Edward Sang, LL.D. In Knott [26], pages 236–237.
- [52] Edward Sang. *Solution of algebraic equations of all orders, whether involving one or more unknown quantities*. Edinburgh: William Tait, 1829.

- [53] Edward Sang. Short verbal notice of a simple and direct method of computing the logarithm of a number. *Proceedings of the Royal Society of Edinburgh*, 2:451, 1857. [This is a brief account (four lines) of a method using continued fractions to solve the exponential equation.]
- [54] Edward Sang. *Five place logarithms*. Edinburgh, 1859. [not seen]
- [55] Edward Sang. *A new table of seven-place logarithms of all numbers from 20 000 to 200 000*. London: Charles and Edwin Layton, 1871.
- [56] Edward Sang. Account of the new table of logarithms to 200000. *Transactions of the Royal Society of Edinburgh*, 26:521–528, 1872.
- [57] Edward Sang. On mechanical aids to calculation. *Journal of the Institute of Actuaries and Assurance Magazine*, 16:253–265, 1872. [The article was published in the July 1871 issue, but the volume is dated 1872.]
- [58] Edward Sang. Specimen pages of a table of the logarithms of all numbers up to one million...: shortened to nine figures from original calculations to fifteen places of decimals, 1872. [These specimen pages were reprinted in 1874 in a booklet which contained also a reprint of Govi’s report [21], a reprint of Sang’s article on Vlacq’s errors [59], and several other letters by eminent scientists supporting the publication of Sang’s table. The specimen pages were used to construct [32].]
- [59] Edward Sang. On last-place errors in Vlacq’s table of logarithms. *Proceedings of the Royal Society of Edinburgh*, 8:371–376, 1875. [First printed in the 1874 edition of [58].]
- [60] Edward Sang. Remarks on the great logarithmic and trigonometrical tables computed by the Bureau du Cadastre under the direction of M. Prony. *Proceedings of the Royal Society of Edinburgh, Session 1874–1875*, 8:421–436, 1875. [This article reproduces [2].]
- [61] Edward Sang. Reply to M. Lefort’s Observations (with a Postscript by M. Lefort). *Proceedings of the Royal Society of Edinburgh, Session 1874–1875*, 8:581–587, 1875. [This is a reply to [28].]
- [62] Edward Sang. On the construction of the canon of sines, for the decimal division of the quadrant. *Proceedings of the Royal Society of Edinburgh*, 9:343–349, 1878.
- [63] Edward Sang. On the precautions to be taken in recording and using the records of original computations. *Proceedings of the Royal Society of Edinburgh*, 9:349–352, 1878.
- [64] Edward Sang. Description of new astronomical tables for the computation of anomalies. *Proceedings of the Royal Society of Edinburgh*, 10(107):726–727, 1880.
- [65] Edward Sang. Nouveau calcul des mouvements elliptiques. *Memorie della Reale accademia delle scienze di Torino*, 32 (2nd series):187–199, 1880.

- [66] Edward Sang. Addition au mémoire sur le calcul des mouvements elliptiques. *Memorie della Reale accademia delle scienze di Torino*, 32 (2nd series):305–307, 1880.
- [67] Edward Sang. On the construction of the canon of logarithmic sines. *Proceedings of the Royal Society of Edinburgh*, 12:601–619, 1884.
- [68] Edward Sang. On the need for decimal subdivisions in astronomy and navigation, and on tables requisite therefor. *Proceedings of the Royal Society of Edinburgh*, 12:533–544, 1884.
- [69] Edward Sang. Notice of fundamental tables in trigonometry and astronomy, arranged according to the decimal division of the quadrant. *Proceedings of the Royal Society of Edinburgh*, 16:249–256, 1889.
- [70] Edward Sang. List of trigonometrical and astronomical calculations, in manuscript, 1890. [Dated July 1890. National Library of Scotland: Acc10780/10. Reprinted in [4].]
- [71] Edward Sang. On last-place errors in Vlacq. *Nature*, 42(1094):593, 1890.
- [72] Abraham Sharp. *Geometry improv'd*. London: Richard Mount, 1717.
- [73] Robert Shortrede. *Logarithmic tables, to seven places of decimals, containing logarithms to numbers from 1 to 120,000, numbers to logarithms from .0 to 1.00000, logarithmic sines and tangents to every second of the circle, with arguments in space and time, and new astronomical and geodesical tables*. Edinburgh: Adam and Charles Black, 1844.
- [74] Robert Shortrede. *Logarithmic tables, containing logarithms to numbers from 1 to 120,000, numbers to logarithms from .0 to 1.00000, to seven places of decimals; etc.* Edinburgh: Adam and Charles Black, 1849.
- [75] James Francis Tennant. Note on logarithmic tables. *Monthly Notices of the Royal Astronomical Society*, 33:563–565, 1873.
- [76] Alexander John Thompson. *Logarithmetica Britannica, being a standard table of logarithms to twenty decimal places of the numbers 10,000 to 100,000*. Cambridge: University press, 1952. [2 volumes, unpublished reconstruction by D. Roegel in 2010 [33].]
- [77] Shane F. Whelan. Edward Sang: actuary of the Millennium. *Newsletter of the Society of Actuaries in Ireland*, November 1999. [A slightly edited version was published in *The Actuary*, April 2000, page 27.]

$e = 0^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0000	.0000	40	2.5804	.1957	.0046
1	.0000	.0003	.0002	41	2.7761	.2050	.0047
2	.0003	.0008	.0003	42	2.9811	.2147	.0048
3	.0011	.0015	.0004	43	3.1958	.2245	.0049
4	.0026	.0025	.0005	44	3.4203	.2346	.0050
5	.0051	.0038	.0007	45	3.6549	.2447	.0051
6	.0089	.0052	.0007	46	3.8996	.2551	.0052
7	.0141	.0069	.0009	47	4.1547	.2657	.0053
8	.0210	.0089	.0010	48	4.4204	.2764	.0054
9	.0299	.0112	.0012	49	4.6968	.2874	.0055
10	.0411	.0136	.0012	50	4.9842	.2985	.0055
11	.0547	.0162	.0013	51	5.2827	.3097	.0056
12	.0709	.0193	.0015	52	5.5924	.3212	.0057
13	.0902	.0224	.0016	53	5.9136	.3328	.0058
14	.1126	.0258	.0017	54	6.2464	.3447	.0059
15	.1384	.0295	.0018	55	6.5911	.3565	.0059
16	.1679	.0334	.0020	56	6.9476	.3687	.0061
17	.2013	.0376	.0021	57	7.3163	.3809	.0061
18	.2389	.0419	.0022	58	7.6972	.3933	.0062
19	.2808	.0466	.0023	59	8.0905	.4059	.0063
20	.3274	.0514	.0024	60	8.4964	.4186	.0063
21	.3788	.0565	.0025	61	8.9150	.4314	.0064
22	.4353	.0618	.0026	62	9.3464	.4445	.0065
23	.4971	.0674	.0028	63	9.7909	.4575	.0065
24	.5645	.0731	.0029	64	10.2484	.4708	.0066
25	.6376	.0792	.0030	65	10.7192	.4843	.0067
26	.7168	.0854	.0031	66	11.2035	.4977	.0067
27	.8022	.0918	.0032	67	11.7012	.5114	.0068
28	.8940	.0986	.0034	68	12.2126	.5251	.0069
29	.9926	.1055	.0035	69	12.7377	.5391	.0070
30	1.0981	.1126	.0035	70	13.2768	.5530	.0070
31	1.2107	.1199	.0036	71	13.8298	.5671	.0070
32	1.3306	.1275	.0038	72	14.3969	.5814	.0071
33	1.4581	.1353	.0039	73	14.9783	.5956	.0071
34	1.5934	.1433	.0040	74	15.5739	.6101	.0072
35	1.7367	.1515	.0041	75	16.1840	.6246	.0073
36	1.8882	.1599	.0042	76	16.8086	.6392	.0073
37	2.0481	.1686	.0043	77	17.4478	.6539	.0073
38	2.2167	.1773	.0044	78	18.1017	.6686	.0074
39	2.3940	.1864	.0045	79	18.7703	.6836	.0075
40	2.5804	.1957	.0046	80	19.4539	.6984	.0074

$e = 0^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	19.4539	.6984	.0074	120	59.4539	1.3164	.0074
81	20.1523	.7135	.0075	121	60.7703	1.3314	.0075
82	20.8658	.7286	.0075	122	62.1017	1.3461	.0074
83	21.5944	.7437	.0075	123	63.4478	1.3608	.0073
84	22.3381	.7589	.0076	124	64.8086	1.3754	.0073
85	23.0970	.7742	.0076	125	66.1840	1.3899	.0073
86	23.8712	.7895	.0077	126	67.5739	1.4044	.0072
87	24.6607	.8050	.0077	127	68.9783	1.4186	.0071
88	25.4657	.8203	.0077	128	70.3969	1.4329	.0071
89	26.2860	.8358	.0077	129	71.8298	1.4470	.0070
90	27.1218	.8513	.0078	130	73.2768	1.4609	.0070
91	27.9731	.8669	.0078	131	74.7377	1.4749	.0070
92	28.8400	.8825	.0078	132	76.2126	1.4886	.0069
93	29.7225	.8981	.0078	133	77.7012	1.5023	.0068
94	30.6206	.9137	.0078	134	79.2035	1.5157	.0067
95	31.5343	.9293	.0078	135	80.7192	1.5292	.0067
96	32.4636	.9451	.0079	136	82.2484	1.5425	.0066
97	33.4087	.9607	.0078	137	83.7909	1.5555	.0065
98	34.3694	.9765	.0079	138	85.3464	1.5686	.0065
99	35.3459	.9921	.0078	139	86.9150	1.5814	.0064
100	36.3380	1.0079	.0079	140	88.4964	1.5941	.0063
101	37.3459	1.0235	.0078	141	90.0905	1.6067	.0063
102	38.3694	1.0393	.0079	142	91.6972	1.6191	.0062
103	39.4087	1.0549	.0078	143	93.3163	1.6313	.0061
104	40.4636	1.0707	.0079	144	94.9476	1.6435	.0061
105	41.5343	1.0863	.0078	145	96.5911	1.6553	.0059
106	42.6206	1.1019	.0078	146	98.2464	1.6672	.0059
107	43.7225	1.1175	.0078	147	99.9136	1.6788	.0058
108	44.8400	1.1331	.0078	148	101.5924	1.6903	.0057
109	45.9731	1.1487	.0078	149	103.2827	1.7015	.0056
110	47.1218	1.1642	.0078	150	104.9842	1.7126	.0055
111	48.2860	1.1797	.0077	151	106.6968	1.7236	.0055
112	49.4657	1.1950	.0077	152	108.4204	1.7343	.0054
113	50.6607	1.2105	.0077	153	110.1547	1.7449	.0053
114	51.8712	1.2258	.0077	154	111.8996	1.7553	.0052
115	53.0970	1.2411	.0076	155	113.6549	1.7654	.0051
116	54.3381	1.2563	.0076	156	115.4203	1.7755	.0050
117	55.5944	1.2714	.0075	157	117.1958	1.7853	.0049
118	56.8658	1.2865	.0075	158	118.9811	1.7950	.0048
119	58.1523	1.3016	.0075	159	120.7761	1.8043	.0047
120	59.4539	1.3164	.0074	160	122.5804	1.8136	.0046

$e = 0^c$				$e = 1^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	122.5804	1.8136	.0046	0	.0000	.0002	.0000
161	124.3940	1.8227	.0045	1	.0002	.0004	.0003
162	126.2167	1.8314	.0044	2	.0006	.0009	.0007
163	128.0481	1.8401	.0043	3	.0015	.0016	.0011
164	129.8882	1.8485	.0042	4	.0031	.0027	.0015
165	131.7367	1.8567	.0041	5	.0058	.0038	.0018
166	133.5934	1.8647	.0040	6	.0096	.0054	.0022
167	135.4581	1.8725	.0039	7	.0150	.0070	.0025
168	137.3306	1.8801	.0038	8	.0220	.0091	.0030
169	139.2107	1.8874	.0036	9	.0311	.0112	.0033
170	141.0981	1.8945	.0035	10	.0423	.0137	.0037
171	142.9926	1.9014	.0035	11	.0560	.0164	.0041
172	144.8940	1.9082	.0034	12	.0724	.0194	.0044
173	146.8022	1.9146	.0032	13	.0918	.0225	.0047
174	148.7168	1.9208	.0031	14	.1143	.0259	.0051
175	150.6376	1.9269	.0030	15	.1402	.0297	.0055
176	152.5645	1.9326	.0029	16	.1699	.0335	.0058
177	154.4971	1.9382	.0028	17	.2034	.0377	.0062
178	156.4353	1.9435	.0026	18	.2411	.0420	.0065
179	158.3788	1.9486	.0025	19	.2831	.0467	.0069
180	160.3274	1.9534	.0024	20	.3298	.0515	.0073
181	162.2808	1.9581	.0023	21	.3813	.0566	.0077
182	164.2389	1.9624	.0022	22	.4379	.0620	.0080
183	166.2013	1.9666	.0021	23	.4999	.0675	.0083
184	168.1679	1.9705	.0020	24	.5674	.0732	.0086
185	170.1384	1.9742	.0018	25	.6406	.0793	.0090
186	172.1126	1.9776	.0017	26	.7199	.0855	.0094
187	174.0902	1.9807	.0016	27	.8054	.0920	.0097
188	176.0709	1.9838	.0015	28	.8974	.0987	.0100
189	178.0547	1.9864	.0013	29	.9961	.1055	.0103
190	180.0411	1.9888	.0012	30	1.1016	.1127	.0107
191	182.0299	1.9911	.0012	31	1.2143	.1201	.0111
192	184.0210	1.9931	.0010	32	1.3344	.1276	.0113
193	186.0141	1.9948	.0009	33	1.4620	.1354	.0117
194	188.0089	1.9962	.0007	34	1.5974	.1434	.0120
195	190.0051	1.9975	.0007	35	1.7408	.1516	.0123
196	192.0026	1.9985	.0005	36	1.8924	.1600	.0126
197	194.0011	1.9992	.0004	37	2.0524	.1687	.0130
198	196.0003	1.9997	.0003	38	2.2211	.1774	.0132
199	198.0000	2.0000	.0002	39	2.3985	.1865	.0136
200	200.0000	2.0000	.0000	40	2.5850	.1958	.0139



$e = 1^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	2.5850	.1958	.0139	80	19.4613	.6985	.0224
41	2.7808	.2051	.0141	81	20.1598	.7135	.0226
42	2.9859	.2148	.0145	82	20.8733	.7286	.0227
43	3.2007	.2246	.0148	83	21.6019	.7438	.0228
44	3.4253	.2347	.0151	84	22.3457	.7589	.0228
45	3.6600	.2448	.0153	85	23.1046	.7743	.0230
46	3.9048	.2552	.0156	86	23.8789	.7895	.0230
47	4.1600	.2658	.0158	87	24.6684	.8050	.0231
48	4.4258	.2765	.0161	88	25.4734	.8203	.0231
49	4.7023	.2874	.0164	89	26.2937	.8359	.0232
50	4.9897	.2986	.0167	90	27.1296	.8513	.0232
51	5.2883	.3098	.0169	91	27.9809	.8669	.0233
52	5.5981	.3213	.0172	92	28.8478	.8825	.0234
53	5.9194	.3329	.0175	93	29.7303	.8981	.0234
54	6.2523	.3447	.0177	94	30.6284	.9137	.0234
55	6.5970	.3567	.0179	95	31.5421	.9294	.0235
56	6.9537	.3687	.0181	96	32.4715	.9450	.0235
57	7.3224	.3810	.0184	97	33.4165	.9608	.0236
58	7.7034	.3934	.0186	98	34.3773	.9764	.0235
59	8.0968	.4059	.0188	99	35.3537	.9922	.0236
60	8.5027	.4187	.0191	100	36.3459	1.0078	.0235
61	8.9214	.4315	.0193	101	37.3537	1.0236	.0236
62	9.3529	.4445	.0195	102	38.3773	1.0392	.0235
63	9.7974	.4576	.0197	103	39.4165	1.0550	.0236
64	10.2550	.4709	.0199	104	40.4715	1.0706	.0235
65	10.7259	.4843	.0201	105	41.5421	1.0863	.0235
66	11.2102	.4978	.0203	106	42.6284	1.1019	.0234
67	11.7080	.5115	.0205	107	43.7303	1.1175	.0234
68	12.2195	.5252	.0206	108	44.8478	1.1331	.0234
69	12.7447	.5391	.0208	109	45.9809	1.1487	.0233
70	13.2838	.5530	.0210	110	47.1296	1.1641	.0232
71	13.8368	.5672	.0212	111	48.2937	1.1797	.0232
72	14.4040	.5814	.0213	112	49.4734	1.1950	.0231
73	14.9854	.5957	.0215	113	50.6684	1.2105	.0231
74	15.5811	.6102	.0217	114	51.8789	1.2257	.0230
75	16.1913	.6246	.0217	115	53.1046	1.2411	.0230
76	16.8159	.6392	.0219	116	54.3457	1.2562	.0228
77	17.4551	.6540	.0221	117	55.6019	1.2714	.0228
78	18.1091	.6687	.0221	118	56.8733	1.2865	.0227
79	18.7778	.6835	.0223	119	58.1598	1.3015	.0226
80	19.4613	.6985	.0224	120	59.4613	1.3165	.0224

$e = 1^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	59.4613	1.3165	.0224	160	122.5850	1.8135	.0139
121	60.7778	1.3313	.0223	161	124.3985	1.8226	.0136
122	62.1091	1.3460	.0221	162	126.2211	1.8313	.0132
123	63.4551	1.3608	.0221	163	128.0524	1.8400	.0130
124	64.8159	1.3754	.0219	164	129.8924	1.8484	.0126
125	66.1913	1.3898	.0217	165	131.7408	1.8566	.0123
126	67.5811	1.4043	.0217	166	133.5974	1.8646	.0120
127	68.9854	1.4186	.0215	167	135.4620	1.8724	.0117
128	70.4040	1.4328	.0213	168	137.3344	1.8799	.0113
129	71.8368	1.4470	.0212	169	139.2143	1.8873	.0111
130	73.2838	1.4609	.0210	170	141.1016	1.8945	.0107
131	74.7447	1.4748	.0208	171	142.9961	1.9013	.0103
132	76.2195	1.4885	.0206	172	144.8974	1.9080	.0100
133	77.7080	1.5022	.0205	173	146.8054	1.9145	.0097
134	79.2102	1.5157	.0203	174	148.7199	1.9207	.0094
135	80.7259	1.5291	.0201	175	150.6406	1.9268	.0090
136	82.2550	1.5424	.0199	176	152.5674	1.9325	.0086
137	83.7974	1.5555	.0197	177	154.4999	1.9380	.0083
138	85.3529	1.5685	.0195	178	156.4379	1.9434	.0080
139	86.9214	1.5813	.0193	179	158.3813	1.9485	.0077
140	88.5027	1.5941	.0191	180	160.3298	1.9533	.0073
141	90.0968	1.6066	.0188	181	162.2831	1.9580	.0069
142	91.7034	1.6190	.0186	182	164.2411	1.9623	.0065
143	93.3224	1.6313	.0184	183	166.2034	1.9665	.0062
144	94.9537	1.6433	.0181	184	168.1699	1.9703	.0058
145	96.5970	1.6553	.0179	185	170.1402	1.9741	.0055
146	98.2523	1.6671	.0177	186	172.1143	1.9775	.0051
147	99.9194	1.6787	.0175	187	174.0918	1.9806	.0047
148	101.5981	1.6902	.0172	188	176.0724	1.9836	.0044
149	103.2883	1.7014	.0169	189	178.0560	1.9863	.0041
150	104.9897	1.7126	.0167	190	180.0423	1.9888	.0037
151	106.7023	1.7235	.0164	191	182.0311	1.9909	.0033
152	108.4258	1.7342	.0161	192	184.0220	1.9930	.0030
153	110.1600	1.7448	.0158	193	186.0150	1.9946	.0025
154	111.9048	1.7552	.0156	194	188.0096	1.9962	.0022
155	113.6600	1.7653	.0153	195	190.0058	1.9973	.0018
156	115.4253	1.7754	.0151	196	192.0031	1.9984	.0015
157	117.2007	1.7852	.0148	197	194.0015	1.9991	.0011
158	118.9859	1.7949	.0145	198	196.0006	1.9996	.0007
159	120.7808	1.8042	.0141	199	198.0002	1.9998	.0003
160	122.5850	1.8135	.0139	200	200.0000	1.9998	.0000

$e = 2^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0005	.0000	40	2.5989	.1960	.0231
1	.0005	.0008	.0007	41	2.7949	.2055	.0236
2	.0013	.0013	.0012	42	3.0004	.2151	.0240
3	.0026	.0020	.0018	43	3.2155	.2249	.0245
4	.0046	.0030	.0025	44	3.4404	.2349	.0250
5	.0076	.0042	.0031	45	3.6753	.2451	.0255
6	.0118	.0057	.0037	46	3.9204	.2554	.0259
7	.0175	.0075	.0044	47	4.1758	.2661	.0265
8	.0250	.0094	.0049	48	4.4419	.2768	.0269
9	.0344	.0116	.0055	49	4.7187	.2877	.0273
10	.0460	.0141	.0061	50	5.0064	.2988	.0278
11	.0601	.0167	.0067	51	5.3052	.3101	.0282
12	.0768	.0197	.0074	52	5.6153	.3216	.0286
13	.0965	.0229	.0080	53	5.9369	.3331	.0290
14	.1194	.0263	.0086	54	6.2700	.3449	.0295
15	.1457	.0300	.0092	55	6.6149	.3569	.0299
16	.1757	.0339	.0098	56	6.9718	.3690	.0303
17	.2096	.0380	.0104	57	7.3408	.3812	.0306
18	.2476	.0424	.0110	58	7.7220	.3936	.0310
19	.2900	.0471	.0116	59	8.1156	.4062	.0314
20	.3371	.0519	.0121	60	8.5218	.4189	.0318
21	.3890	.0569	.0127	61	8.9407	.4317	.0321
22	.4459	.0623	.0133	62	9.3724	.4447	.0325
23	.5082	.0678	.0139	63	9.8171	.4578	.0328
24	.5760	.0736	.0145	64	10.2749	.4711	.0332
25	.6496	.0797	.0151	65	10.7460	.4845	.0335
26	.7293	.0858	.0155	66	11.2305	.4980	.0338
27	.8151	.0923	.0162	67	11.7285	.5116	.0341
28	.9074	.0990	.0167	68	12.2401	.5254	.0344
29	1.0064	.1059	.0173	69	12.7655	.5393	.0347
30	1.1123	.1131	.0179	70	13.3048	.5532	.0349
31	1.2254	.1203	.0183	71	13.8580	.5673	.0353
32	1.3457	.1280	.0190	72	14.4253	.5816	.0356
33	1.4737	.1357	.0194	73	15.0069	.5959	.0358
34	1.6094	.1437	.0200	74	15.6028	.6102	.0360
35	1.7531	.1519	.0205	75	16.2130	.6248	.0363
36	1.9050	.1604	.0211	76	16.8378	.6394	.0365
37	2.0654	.1689	.0215	77	17.4772	.6540	.0367
38	2.2343	.1778	.0221	78	18.1312	.6689	.0370
39	2.4121	.1868	.0226	79	18.8001	.6836	.0371
40	2.5989	.1960	.0231	80	19.4837	.6987	.0374

$e = 2^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	19.4837	.6987	.0374	120	59.4837	1.3164	.0374
81	20.1824	.7136	.0375	121	60.8001	1.3311	.0371
82	20.8960	.7287	.0377	122	62.1312	1.3460	.0370
83	21.6247	.7438	.0378	123	63.4772	1.3606	.0367
84	22.3685	.7591	.0380	124	64.8378	1.3752	.0365
85	23.1276	.7743	.0381	125	66.2130	1.3898	.0363
86	23.9019	.7896	.0383	126	67.6028	1.4041	.0360
87	24.6915	.8050	.0384	127	69.0069	1.4184	.0358
88	25.4965	.8204	.0386	128	70.4253	1.4327	.0356
89	26.3169	.8359	.0387	129	71.8580	1.4468	.0353
90	27.1528	.8514	.0388	130	73.3048	1.4607	.0349
91	28.0042	.8670	.0389	131	74.7655	1.4746	.0347
92	28.8712	.8825	.0389	132	76.2401	1.4884	.0344
93	29.7537	.8981	.0390	133	77.7285	1.5020	.0341
94	30.6518	.9138	.0391	134	79.2305	1.5155	.0338
95	31.5656	.9294	.0391	135	80.7460	1.5289	.0335
96	32.4950	.9451	.0392	136	82.2749	1.5422	.0332
97	33.4401	.9607	.0392	137	83.8171	1.5553	.0328
98	34.4008	.9765	.0393	138	85.3724	1.5683	.0325
99	35.3773	.9921	.0392	139	86.9407	1.5811	.0321
100	36.3694	1.0079	.0393	140	88.5218	1.5938	.0318
101	37.3773	1.0235	.0392	141	90.1156	1.6064	.0314
102	38.4008	1.0393	.0393	142	91.7220	1.6188	.0310
103	39.4401	1.0549	.0392	143	93.3408	1.6310	.0306
104	40.4950	1.0706	.0392	144	94.9718	1.6431	.0303
105	41.5656	1.0862	.0391	145	96.6149	1.6551	.0299
106	42.6518	1.1019	.0391	146	98.2700	1.6669	.0295
107	43.7537	1.1175	.0390	147	99.9369	1.6784	.0290
108	44.8712	1.1330	.0389	148	101.6153	1.6899	.0286
109	46.0042	1.1486	.0389	149	103.3052	1.7012	.0282
110	47.1528	1.1641	.0388	150	105.0064	1.7123	.0278
111	48.3169	1.1796	.0387	151	106.7187	1.7232	.0273
112	49.4965	1.1950	.0386	152	108.4419	1.7339	.0269
113	50.6915	1.2104	.0384	153	110.1758	1.7446	.0265
114	51.9019	1.2257	.0383	154	111.9204	1.7549	.0259
115	53.1276	1.2409	.0381	155	113.6753	1.7651	.0255
116	54.3685	1.2562	.0380	156	115.4404	1.7751	.0250
117	55.6247	1.2713	.0378	157	117.2155	1.7849	.0245
118	56.8960	1.2864	.0377	158	119.0004	1.7945	.0240
119	58.1824	1.3013	.0375	159	120.7949	1.8040	.0236
120	59.4837	1.3164	.0374	160	122.5989	1.8132	.0231

$e = 2^c$				$e = 3^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	122.5989	1.8132	.0231	0	.0000	.0012	.0000
161	124.4121	1.8222	.0226	1	.0012	.0013	.0008
162	126.2343	1.8311	.0221	2	.0025	.0019	.0018
163	128.0654	1.8396	.0215	3	.0044	.0027	.0026
164	129.9050	1.8481	.0211	4	.0071	.0036	.0034
165	131.7531	1.8563	.0205	5	.0107	.0048	.0043
166	133.6094	1.8643	.0200	6	.0155	.0064	.0052
167	135.4737	1.8720	.0194	7	.0219	.0080	.0060
168	137.3457	1.8797	.0190	8	.0299	.0100	.0069
169	139.2254	1.8869	.0183	9	.0399	.0122	.0077
170	141.1123	1.8941	.0179	10	.0521	.0147	.0086
171	143.0064	1.9010	.0173	11	.0668	.0174	.0095
172	144.9074	1.9077	.0167	12	.0842	.0203	.0103
173	146.8151	1.9142	.0162	13	.1045	.0235	.0111
174	148.7293	1.9203	.0155	14	.1280	.0269	.0120
175	150.6496	1.9264	.0151	15	.1549	.0306	.0128
176	152.5760	1.9322	.0145	16	.1855	.0345	.0137
177	154.5082	1.9377	.0139	17	.2200	.0386	.0145
178	156.4459	1.9431	.0133	18	.2586	.0430	.0153
179	158.3890	1.9481	.0127	19	.3016	.0476	.0161
180	160.3371	1.9529	.0121	20	.3492	.0525	.0170
181	162.2900	1.9576	.0116	21	.4017	.0575	.0178
182	164.2476	1.9620	.0110	22	.4592	.0629	.0186
183	166.2096	1.9661	.0104	23	.5221	.0684	.0194
184	168.1757	1.9700	.0098	24	.5905	.0742	.0202
185	170.1457	1.9737	.0092	25	.6647	.0801	.0210
186	172.1194	1.9771	.0086	26	.7448	.0865	.0219
187	174.0965	1.9803	.0080	27	.8313	.0928	.0226
188	176.0768	1.9833	.0074	28	.9241	.0996	.0234
189	178.0601	1.9859	.0067	29	1.0237	.1065	.0242
190	180.0460	1.9884	.0061	30	1.1302	.1135	.0249
191	182.0344	1.9906	.0055	31	1.2437	.1210	.0257
192	184.0250	1.9925	.0049	32	1.3647	.1284	.0264
193	186.0175	1.9943	.0044	33	1.4931	.1363	.0273
194	188.0118	1.9958	.0037	34	1.6294	.1442	.0280
195	190.0076	1.9970	.0031	35	1.7736	.1525	.0287
196	192.0046	1.9980	.0025	36	1.9261	.1608	.0294
197	194.0026	1.9987	.0018	37	2.0869	.1695	.0302
198	196.0013	1.9992	.0012	38	2.2564	.1783	.0309
199	198.0005	1.9995	.0007	39	2.4347	.1873	.0316
200	200.0000	1.9995	.0000	40	2.6220	.1965	.0323

$e = 3^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	2.6220	.1965	.0323	80	19.5211	.6988	.0522
41	2.8185	.2059	.0330	81	20.2199	.7138	.0525
42	3.0244	.2156	.0337	82	20.9337	.7288	.0527
43	3.2400	.2254	.0344	83	21.6625	.7440	.0530
44	3.4654	.2354	.0350	84	22.4065	.7592	.0533
45	3.7008	.2455	.0356	85	23.1657	.7745	.0535
46	3.9463	.2560	.0364	86	23.9402	.7897	.0536
47	4.2023	.2665	.0369	87	24.7299	.8052	.0539
48	4.4688	.2772	.0376	88	25.5351	.8205	.0539
49	4.7460	.2882	.0382	89	26.3556	.8360	.0541
50	5.0342	.2992	.0388	90	27.1916	.8515	.0543
51	5.3334	.3105	.0395	91	28.0431	.8670	.0544
52	5.6439	.3220	.0401	92	28.9101	.8826	.0545
53	5.9659	.3336	.0406	93	29.7927	.8982	.0546
54	6.2995	.3453	.0412	94	30.6909	.9138	.0547
55	6.6448	.3573	.0418	95	31.6047	.9295	.0548
56	7.0021	.3693	.0423	96	32.5342	.9451	.0548
57	7.3714	.3816	.0429	97	33.4793	.9608	.0549
58	7.7530	.3940	.0434	98	34.4401	.9764	.0549
59	8.1470	.4066	.0440	99	35.4165	.9922	.0550
60	8.5536	.4192	.0444	100	36.4087	1.0078	.0549
61	8.9728	.4321	.0449	101	37.4165	1.0236	.0550
62	9.4049	.4450	.0454	102	38.4401	1.0392	.0549
63	9.8499	.4582	.0459	103	39.4793	1.0549	.0549
64	10.3081	.4714	.0464	104	40.5342	1.0705	.0548
65	10.7795	.4848	.0469	105	41.6047	1.0862	.0548
66	11.2643	.4983	.0473	106	42.6909	1.1018	.0547
67	11.7626	.5119	.0477	107	43.7927	1.1174	.0546
68	12.2745	.5257	.0482	108	44.9101	1.1330	.0545
69	12.8002	.5395	.0486	109	46.0431	1.1485	.0544
70	13.3397	.5536	.0490	110	47.1916	1.1640	.0543
71	13.8933	.5676	.0493	111	48.3556	1.1795	.0541
72	14.4609	.5818	.0497	112	49.5351	1.1948	.0539
73	15.0427	.5961	.0501	113	50.7299	1.2103	.0539
74	15.6388	.6105	.0504	114	51.9402	1.2255	.0536
75	16.2493	.6250	.0508	115	53.1657	1.2408	.0535
76	16.8743	.6396	.0511	116	54.4065	1.2560	.0533
77	17.5139	.6543	.0514	117	55.6625	1.2712	.0530
78	18.1682	.6690	.0517	118	56.9337	1.2862	.0527
79	18.8372	.6839	.0520	119	58.2199	1.3012	.0525
80	19.5211	.6988	.0522	120	59.5211	1.3161	.0522

$e = 3^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	59.5211	1.3161	.0522	160	122.6220	1.8127	.0323
121	60.8372	1.3310	.0520	161	124.4347	1.8217	.0316
122	62.1682	1.3457	.0517	162	126.2564	1.8305	.0309
123	63.5139	1.3604	.0514	163	128.0869	1.8392	.0302
124	64.8743	1.3750	.0511	164	129.9261	1.8475	.0294
125	66.2493	1.3895	.0508	165	131.7736	1.8558	.0287
126	67.6388	1.4039	.0504	166	133.6294	1.8637	.0280
127	69.0427	1.4182	.0501	167	135.4931	1.8716	.0273
128	70.4609	1.4324	.0497	168	137.3647	1.8790	.0264
129	71.8933	1.4464	.0493	169	139.2437	1.8865	.0257
130	73.3397	1.4605	.0490	170	141.1302	1.8935	.0249
131	74.8002	1.4743	.0486	171	143.0237	1.9004	.0242
132	76.2745	1.4881	.0482	172	144.9241	1.9072	.0234
133	77.7626	1.5017	.0477	173	146.8313	1.9135	.0226
134	79.2643	1.5152	.0473	174	148.7448	1.9199	.0219
135	80.7795	1.5286	.0469	175	150.6647	1.9258	.0210
136	82.3081	1.5418	.0464	176	152.5905	1.9316	.0202
137	83.8499	1.5550	.0459	177	154.5221	1.9371	.0194
138	85.4049	1.5679	.0454	178	156.4592	1.9425	.0186
139	86.9728	1.5808	.0449	179	158.4017	1.9475	.0178
140	88.5536	1.5934	.0444	180	160.3492	1.9524	.0170
141	90.1470	1.6060	.0440	181	162.3016	1.9570	.0161
142	91.7530	1.6184	.0434	182	164.2586	1.9614	.0153
143	93.3714	1.6307	.0429	183	166.2200	1.9655	.0145
144	95.0021	1.6427	.0423	184	168.1855	1.9694	.0137
145	96.6448	1.6547	.0418	185	170.1549	1.9731	.0128
146	98.2995	1.6664	.0412	186	172.1280	1.9765	.0120
147	99.9659	1.6780	.0406	187	174.1045	1.9797	.0111
148	101.6439	1.6895	.0401	188	176.0842	1.9826	.0103
149	103.3334	1.7008	.0395	189	178.0668	1.9853	.0095
150	105.0342	1.7118	.0388	190	180.0521	1.9878	.0086
151	106.7460	1.7228	.0382	191	182.0399	1.9900	.0077
152	108.4688	1.7335	.0376	192	184.0299	1.9920	.0069
153	110.2023	1.7440	.0369	193	186.0219	1.9936	.0060
154	111.9463	1.7545	.0364	194	188.0155	1.9952	.0052
155	113.7008	1.7646	.0356	195	190.0107	1.9964	.0043
156	115.4654	1.7746	.0350	196	192.0071	1.9973	.0034
157	117.2400	1.7844	.0344	197	194.0044	1.9981	.0026
158	119.0244	1.7941	.0337	198	196.0025	1.9987	.0018
159	120.8185	1.8035	.0330	199	198.0012	1.9988	.0008
160	122.6220	1.8127	.0323	200	200.0000	1.9988	.0000

$e = 4^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0020	.0000	40	2.6543	.1972	.0415
1	.0020	.0023	.0011	41	2.8515	.2066	.0424
2	.0043	.0027	.0022	42	3.0581	.2163	.0433
3	.0070	.0035	.0034	43	3.2744	.2260	.0441
4	.0105	.0045	.0045	44	3.5004	.2360	.0450
5	.0150	.0057	.0055	45	3.7364	.2463	.0459
6	.0207	.0072	.0066	46	3.9827	.2565	.0467
7	.0279	.0089	.0077	47	4.2392	.2672	.0476
8	.0368	.0108	.0088	48	4.5064	.2778	.0483
9	.0476	.0131	.0100	49	4.7842	.2888	.0492
10	.0607	.0156	.0111	50	5.0730	.2999	.0500
11	.0763	.0182	.0121	51	5.3729	.3111	.0507
12	.0945	.0211	.0132	52	5.6840	.3225	.0515
13	.1156	.0244	.0144	53	6.0065	.3342	.0523
14	.1400	.0277	.0154	54	6.3407	.3459	.0530
15	.1677	.0315	.0165	55	6.6866	.3578	.0537
16	.1992	.0353	.0175	56	7.0444	.3699	.0544
17	.2345	.0394	.0186	57	7.4143	.3821	.0551
18	.2739	.0438	.0197	58	7.7964	.3946	.0558
19	.3177	.0485	.0208	59	8.1910	.4070	.0564
20	.3662	.0533	.0218	60	8.5980	.4197	.0571
21	.4195	.0583	.0228	61	9.0177	.4326	.0578
22	.4778	.0637	.0240	62	9.4503	.4455	.0584
23	.5415	.0692	.0250	63	9.8958	.4587	.0591
24	.6107	.0750	.0260	64	10.3545	.4719	.0596
25	.6857	.0810	.0270	65	10.8264	.4852	.0602
26	.7667	.0872	.0280	66	11.3116	.4987	.0608
27	.8539	.0936	.0290	67	11.8103	.5124	.0614
28	.9475	.1004	.0301	68	12.3227	.5261	.0619
29	1.0479	.1072	.0310	69	12.8488	.5399	.0624
30	1.1551	.1143	.0321	70	13.3887	.5539	.0629
31	1.2694	.1217	.0331	71	13.9426	.5680	.0634
32	1.3911	.1293	.0341	72	14.5106	.5822	.0639
33	1.5204	.1370	.0350	73	15.0928	.5964	.0643
34	1.6574	.1449	.0359	74	15.6892	.6109	.0648
35	1.8023	.1532	.0369	75	16.3001	.6253	.0652
36	1.9555	.1616	.0379	76	16.9254	.6399	.0657
37	2.1171	.1702	.0388	77	17.5653	.6546	.0661
38	2.2873	.1790	.0397	78	18.2199	.6693	.0664
39	2.4663	.1880	.0406	79	18.8892	.6841	.0668
40	2.6543	.1972	.0415	80	19.5733	.6991	.0672



$e = 4^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	19.5733	.6991	.0672	120	59.5733	1.3159	.0672
81	20.2724	.7140	.0675	121	60.8892	1.3307	.0668
82	20.9864	.7291	.0679	122	62.2199	1.3454	.0664
83	21.7155	.7443	.0682	123	63.5653	1.3601	.0661
84	22.4598	.7594	.0684	124	64.9254	1.3747	.0657
85	23.2192	.7746	.0686	125	66.3001	1.3891	.0652
86	23.9938	.7900	.0689	126	67.6892	1.4036	.0648
87	24.7838	.8052	.0691	127	69.0928	1.4178	.0643
88	25.5890	.8207	.0694	128	70.5106	1.4320	.0639
89	26.4097	.8362	.0696	129	71.9426	1.4461	.0634
90	27.2459	.8516	.0697	130	73.3887	1.4601	.0629
91	28.0975	.8671	.0699	131	74.8488	1.4739	.0624
92	28.9646	.8827	.0701	132	76.3227	1.4876	.0619
93	29.8473	.8983	.0702	133	77.8103	1.5013	.0614
94	30.7456	.9139	.0703	134	79.3116	1.5148	.0608
95	31.6595	.9295	.0704	135	80.8264	1.5281	.0602
96	32.5890	.9452	.0705	136	82.3545	1.5413	.0596
97	33.5342	.9608	.0705	137	83.8958	1.5545	.0591
98	34.4950	.9765	.0706	138	85.4503	1.5674	.0584
99	35.4715	.9921	.0706	139	87.0177	1.5803	.0578
100	36.4636	1.0079	.0707	140	88.5980	1.5930	.0571
101	37.4715	1.0235	.0706	141	90.1910	1.6054	.0564
102	38.4950	1.0392	.0706	142	91.7964	1.6179	.0558
103	39.5342	1.0548	.0705	143	93.4143	1.6301	.0551
104	40.5890	1.0705	.0705	144	95.0444	1.6422	.0544
105	41.6595	1.0861	.0704	145	96.6866	1.6541	.0537
106	42.7456	1.1017	.0703	146	98.3407	1.6658	.0530
107	43.8473	1.1173	.0702	147	100.0065	1.6775	.0523
108	44.9646	1.1329	.0701	148	101.6840	1.6889	.0515
109	46.0975	1.1484	.0699	149	103.3729	1.7001	.0507
110	47.2459	1.1638	.0697	150	105.0730	1.7112	.0500
111	48.4097	1.1793	.0696	151	106.7842	1.7222	.0492
112	49.5890	1.1948	.0694	152	108.5064	1.7328	.0483
113	50.7838	1.2100	.0691	153	110.2392	1.7435	.0476
114	51.9938	1.2254	.0689	154	111.9827	1.7537	.0467
115	53.2192	1.2406	.0686	155	113.7364	1.7640	.0459
116	54.4598	1.2557	.0684	156	115.5004	1.7740	.0450
117	55.7155	1.2709	.0682	157	117.2744	1.7837	.0441
118	56.9864	1.2860	.0679	158	119.0581	1.7934	.0433
119	58.2724	1.3009	.0675	159	120.8515	1.8028	.0424
120	59.5733	1.3159	.0672	160	122.6543	1.8120	.0415

$e = 4^c$				$e = 5^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	122.6543	1.8120	.0415	0	.0000	.0031	.0000
161	124.4663	1.8210	.0406	1	.0031	.0034	.0014
162	126.2873	1.8298	.0397	2	.0065	.0039	.0027
163	128.1171	1.8384	.0388	3	.0104	.0046	.0040
164	129.9555	1.8468	.0379	4	.0150	.0055	.0054
165	131.8023	1.8551	.0369	5	.0205	.0068	.0068
166	133.6574	1.8630	.0359	6	.0273	.0083	.0082
167	135.5204	1.8707	.0350	7	.0356	.0100	.0095
168	137.3911	1.8783	.0341	8	.0456	.0120	.0108
169	139.2694	1.8857	.0331	9	.0576	.0142	.0122
170	141.1551	1.8928	.0321	10	.0718	.0166	.0135
171	143.0479	1.8996	.0310	11	.0884	.0193	.0148
172	144.9475	1.9064	.0301	12	.1077	.0223	.0162
173	146.8539	1.9128	.0290	13	.1300	.0254	.0175
174	148.7667	1.9190	.0280	14	.1554	.0288	.0188
175	150.6857	1.9250	.0270	15	.1842	.0325	.0202
176	152.6107	1.9308	.0260	16	.2167	.0364	.0215
177	154.5415	1.9363	.0250	17	.2531	.0405	.0228
178	156.4778	1.9417	.0240	18	.2936	.0449	.0241
179	158.4195	1.9467	.0228	19	.3385	.0495	.0254
180	160.3662	1.9515	.0218	20	.3880	.0543	.0267
181	162.3177	1.9562	.0208	21	.4423	.0595	.0280
182	164.2739	1.9606	.0197	22	.5018	.0647	.0292
183	166.2345	1.9647	.0186	23	.5665	.0702	.0305
184	168.1992	1.9685	.0175	24	.6367	.0760	.0318
185	170.1677	1.9723	.0165	25	.7127	.0820	.0330
186	172.1400	1.9756	.0154	26	.7947	.0882	.0343
187	174.1156	1.9789	.0144	27	.8829	.0947	.0355
188	176.0945	1.9818	.0132	28	.9776	.1013	.0367
189	178.0763	1.9844	.0121	29	1.0789	.1083	.0380
190	180.0607	1.9869	.0111	30	1.1872	.1153	.0391
191	182.0476	1.9892	.0100	31	1.3025	.1227	.0404
192	184.0368	1.9911	.0088	32	1.4252	.1302	.0415
193	186.0279	1.9928	.0077	33	1.5554	.1379	.0427
194	188.0207	1.9943	.0066	34	1.6933	.1459	.0439
195	190.0150	1.9955	.0055	35	1.8392	.1542	.0451
196	192.0105	1.9965	.0045	36	1.9934	.1625	.0462
197	194.0070	1.9973	.0034	37	2.1559	.1711	.0473
198	196.0043	1.9977	.0022	38	2.3270	.1799	.0485
199	198.0020	1.9980	.0011	39	2.5069	.1889	.0496
200	200.0000	1.9980	.0000	40	2.6958	.1981	.0507

$e = 5^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	2.6958	.1981	.0507	80	19.6405	.6994	.0821
41	2.8939	.2075	.0518	81	20.3399	.7144	.0825
42	3.1014	.2171	.0529	82	21.0543	.7294	.0828
43	3.3185	.2269	.0540	83	21.7837	.7445	.0832
44	3.5454	.2369	.0550	84	22.5282	.7596	.0835
45	3.7823	.2471	.0560	85	23.2878	.7749	.0839
46	4.0294	.2574	.0570	86	24.0627	.7902	.0842
47	4.2868	.2679	.0580	87	24.8529	.8055	.0845
48	4.5547	.2787	.0591	88	25.6584	.8209	.0848
49	4.8334	.2896	.0600	89	26.4793	.8363	.0850
50	5.1230	.3006	.0610	90	27.3156	.8518	.0853
51	5.4236	.3119	.0620	91	28.1674	.8673	.0855
52	5.7355	.3233	.0629	92	29.0347	.8828	.0856
53	6.0588	.3349	.0638	93	29.9175	.8984	.0858
54	6.3937	.3466	.0647	94	30.8159	.9140	.0859
55	6.7403	.3585	.0656	95	31.7299	.9296	.0860
56	7.0988	.3706	.0665	96	32.6595	.9452	.0861
57	7.4694	.3828	.0674	97	33.6047	.9609	.0862
58	7.8522	.3952	.0682	98	34.5656	.9765	.0862
59	8.2474	.4077	.0690	99	35.5421	.9922	.0863
60	8.6551	.4204	.0699	100	36.5343	1.0078	.0863
61	9.0755	.4332	.0706	101	37.5421	1.0235	.0863
62	9.5087	.4462	.0714	102	38.5656	1.0391	.0862
63	9.9549	.4592	.0721	103	39.6047	1.0548	.0862
64	10.4141	.4725	.0729	104	40.6595	1.0704	.0861
65	10.8866	.4858	.0735	105	41.7299	1.0860	.0860
66	11.3724	.4993	.0742	106	42.8159	1.1016	.0859
67	11.8717	.5129	.0749	107	43.9175	1.1172	.0858
68	12.3846	.5266	.0756	108	45.0347	1.1327	.0856
69	12.9112	.5404	.0762	109	46.1674	1.1482	.0855
70	13.4516	.5544	.0769	110	47.3156	1.1637	.0853
71	14.0060	.5685	.0775	111	48.4793	1.1791	.0850
72	14.5745	.5826	.0781	112	49.6584	1.1945	.0848
73	15.1571	.5969	.0787	113	50.8529	1.2098	.0845
74	15.7540	.6113	.0792	114	52.0627	1.2251	.0842
75	16.3653	.6258	.0797	115	53.2878	1.2404	.0839
76	16.9911	.6403	.0802	116	54.5282	1.2555	.0835
77	17.6314	.6549	.0807	117	55.7837	1.2706	.0832
78	18.2863	.6697	.0812	118	57.0543	1.2856	.0828
79	18.9560	.6845	.0816	119	58.3399	1.3006	.0825
80	19.6405	.6994	.0821	120	59.6405	1.3155	.0821

$e = 5^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	59.6405	1.3155	.0821	160	122.6958	1.8111	.0507
121	60.9560	1.3303	.0816	161	124.5069	1.8201	.0496
122	62.2863	1.3451	.0812	162	126.3270	1.8289	.0485
123	63.6314	1.3597	.0807	163	128.1559	1.8375	.0473
124	64.9911	1.3742	.0802	164	129.9934	1.8458	.0462
125	66.3653	1.3887	.0797	165	131.8392	1.8541	.0451
126	67.7540	1.4031	.0792	166	133.6933	1.8621	.0439
127	69.1571	1.4174	.0787	167	135.5554	1.8698	.0427
128	70.5745	1.4315	.0781	168	137.4252	1.8773	.0415
129	72.0060	1.4456	.0775	169	139.3025	1.8847	.0404
130	73.4516	1.4596	.0769	170	141.1872	1.8917	.0391
131	74.9112	1.4734	.0762	171	143.0789	1.8987	.0380
132	76.3846	1.4871	.0756	172	144.9776	1.9053	.0367
133	77.8717	1.5007	.0749	173	146.8829	1.9118	.0355
134	79.3724	1.5142	.0742	174	148.7947	1.9180	.0343
135	80.8866	1.5275	.0735	175	150.7127	1.9240	.0330
136	82.4141	1.5408	.0729	176	152.6367	1.9298	.0318
137	83.9549	1.5538	.0721	177	154.5665	1.9353	.0305
138	85.5087	1.5668	.0714	178	156.5018	1.9405	.0292
139	87.0755	1.5796	.0706	179	158.4423	1.9457	.0280
140	88.6551	1.5923	.0699	180	160.3880	1.9505	.0267
141	90.2474	1.6048	.0690	181	162.3385	1.9551	.0254
142	91.8522	1.6172	.0682	182	164.2936	1.9595	.0241
143	93.4694	1.6294	.0674	183	166.2531	1.9636	.0228
144	95.0988	1.6415	.0665	184	168.2167	1.9675	.0215
145	96.7403	1.6534	.0656	185	170.1842	1.9712	.0202
146	98.3937	1.6651	.0647	186	172.1554	1.9746	.0188
147	100.0588	1.6767	.0638	187	174.1300	1.9777	.0175
148	101.7355	1.6881	.0629	188	176.1077	1.9807	.0162
149	103.4236	1.6994	.0620	189	178.0884	1.9834	.0148
150	105.1230	1.7104	.0610	190	180.0718	1.9858	.0135
151	106.8334	1.7213	.0600	191	182.0576	1.9880	.0122
152	108.5547	1.7321	.0591	192	184.0456	1.9900	.0108
153	110.2868	1.7426	.0580	193	186.0356	1.9917	.0095
154	112.0294	1.7529	.0570	194	188.0273	1.9932	.0082
155	113.7823	1.7631	.0560	195	190.0205	1.9945	.0068
156	115.5454	1.7731	.0550	196	192.0150	1.9954	.0054
157	117.3185	1.7829	.0540	197	194.0104	1.9961	.0040
158	119.1014	1.7925	.0529	198	196.0065	1.9966	.0027
159	120.8939	1.8019	.0518	199	198.0031	1.9969	.0014
160	122.6958	1.8111	.0507	200	200.0000	1.9969	.0000

$e = 6^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0045	.0000	40	2.7465	.1992	.0599
1	.0045	.0047	.0016	41	2.9457	.2086	.0612
2	.0092	.0052	.0032	42	3.1543	.2182	.0625
3	.0144	.0060	.0048	43	3.3725	.2279	.0637
4	.0204	.0069	.0064	44	3.6004	.2379	.0650
5	.0273	.0082	.0080	45	3.8383	.2481	.0662
6	.0355	.0096	.0096	46	4.0864	.2584	.0674
7	.0451	.0113	.0112	47	4.3448	.2690	.0686
8	.0564	.0134	.0128	48	4.6138	.2796	.0698
9	.0698	.0155	.0143	49	4.8934	.2906	.0710
10	.0853	.0179	.0159	50	5.1840	.3016	.0720
11	.1032	.0207	.0176	51	5.4856	.3128	.0731
12	.1239	.0236	.0191	52	5.7984	.3242	.0743
13	.1475	.0267	.0206	53	6.1226	.3358	.0754
14	.1742	.0302	.0222	54	6.4584	.3475	.0764
15	.2044	.0338	.0238	55	6.8059	.3594	.0775
16	.2382	.0377	.0253	56	7.1653	.3715	.0785
17	.2759	.0418	.0269	57	7.5368	.3836	.0795
18	.3177	.0462	.0284	58	7.9204	.3960	.0806
19	.3639	.0508	.0300	59	8.3164	.4086	.0815
20	.4147	.0556	.0315	60	8.7250	.4211	.0824
21	.4703	.0607	.0330	61	9.1461	.4340	.0834
22	.5310	.0660	.0345	62	9.5801	.4469	.0843
23	.5970	.0715	.0360	63	10.0270	.4600	.0852
24	.6685	.0772	.0375	64	10.4870	.4731	.0860
25	.7457	.0833	.0390	65	10.9601	.4865	.0869
26	.8290	.0894	.0405	66	11.4466	.5000	.0878
27	.9184	.0959	.0420	67	11.9466	.5136	.0886
28	1.0143	.1026	.0434	68	12.4602	.5272	.0893
29	1.1169	.1094	.0448	69	12.9874	.5411	.0901
30	1.2263	.1166	.0463	70	13.5285	.5550	.0908
31	1.3429	.1238	.0477	71	14.0835	.5691	.0915
32	1.4667	.1314	.0491	72	14.6526	.5832	.0922
33	1.5981	.1391	.0505	73	15.2358	.5974	.0929
34	1.7372	.1471	.0519	74	15.8332	.6118	.0936
35	1.8843	.1553	.0533	75	16.4450	.6263	.0942
36	2.0396	.1636	.0546	76	17.0713	.6408	.0948
37	2.2032	.1723	.0560	77	17.7121	.6554	.0953
38	2.3755	.1810	.0573	78	18.3675	.6701	.0959
39	2.5565	.1900	.0586	79	19.0376	.6850	.0965
40	2.7465	.1992	.0599	80	19.7226	.6998	.0969

$e = 6^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	19.7226	.6998	.0969	120	59.7226	1.3150	.0969
81	20.4224	.7147	.0974	121	61.0376	1.3299	.0965
82	21.1371	.7298	.0979	122	62.3675	1.3446	.0959
83	21.8669	.7448	.0983	123	63.7121	1.3592	.0953
84	22.6117	.7600	.0988	124	65.0713	1.3737	.0948
85	23.3717	.7752	.0991	125	66.4450	1.3882	.0942
86	24.1469	.7905	.0995	126	67.8332	1.4026	.0936
87	24.9374	.8058	.0998	127	69.2358	1.4168	.0929
88	25.7432	.8211	.1001	128	70.6526	1.4309	.0922
89	26.5643	.8366	.1004	129	72.0835	1.4450	.0915
90	27.4009	.8520	.1006	130	73.5285	1.4589	.0908
91	28.2529	.8674	.1009	131	74.9874	1.4728	.0901
92	29.1203	.8830	.1011	132	76.4602	1.4864	.0893
93	30.0033	.8985	.1013	133	77.9466	1.5000	.0886
94	30.9018	.9141	.1015	134	79.4466	1.5135	.0878
95	31.8159	.9297	.1016	135	80.9601	1.5269	.0869
96	32.7456	.9453	.1017	136	82.4870	1.5400	.0860
97	33.6909	.9609	.1018	137	84.0270	1.5531	.0852
98	34.6518	.9766	.1019	138	85.5801	1.5660	.0843
99	35.6284	.9922	.1019	139	87.1461	1.5789	.0834
100	36.6206	1.0078	.1019	140	88.7250	1.5914	.0824
101	37.6284	1.0234	.1019	141	90.3164	1.6040	.0815
102	38.6518	1.0391	.1019	142	91.9204	1.6164	.0806
103	39.6909	1.0547	.1018	143	93.5368	1.6285	.0795
104	40.7456	1.0703	.1017	144	95.1653	1.6406	.0785
105	41.8159	1.0859	.1016	145	96.8059	1.6525	.0775
106	42.9018	1.1015	.1015	146	98.4584	1.6642	.0764
107	44.0033	1.1170	.1013	147	100.1226	1.6758	.0754
108	45.1203	1.1326	.1011	148	101.7984	1.6872	.0743
109	46.2529	1.1480	.1009	149	103.4856	1.6984	.0731
110	47.4009	1.1634	.1006	150	105.1840	1.7094	.0720
111	48.5643	1.1789	.1004	151	106.8934	1.7204	.0710
112	49.7432	1.1942	.1001	152	108.6138	1.7310	.0698
113	50.9374	1.2095	.0998	153	110.3448	1.7416	.0686
114	52.1469	1.2248	.0995	154	112.0864	1.7519	.0674
115	53.3717	1.2400	.0991	155	113.8383	1.7621	.0662
116	54.6117	1.2552	.0988	156	115.6004	1.7721	.0650
117	55.8669	1.2702	.0983	157	117.3725	1.7818	.0637
118	57.1371	1.2853	.0979	158	119.1543	1.7914	.0625
119	58.4224	1.3002	.0974	159	120.9457	1.8008	.0612
120	59.7226	1.3150	.0969	160	122.7465	1.8100	.0599

$e = 6^c$				$e = 7^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	122.7465	1.8100	.0599	0	.0000	.0061	.0000
161	124.5565	1.8190	.0586	1	.0061	.0063	.0018
162	126.3755	1.8277	.0573	2	.0124	.0068	.0037
163	128.2032	1.8364	.0560	3	.0192	.0076	.0056
164	130.0396	1.8447	.0546	4	.0268	.0085	.0074
165	131.8843	1.8529	.0533	5	.0353	.0098	.0092
166	133.7372	1.8609	.0519	6	.0451	.0112	.0110
167	135.5981	1.8686	.0505	7	.0563	.0129	.0129
168	137.4667	1.8762	.0491	8	.0692	.0149	.0148
169	139.3429	1.8834	.0477	9	.0841	.0171	.0166
170	141.2263	1.8906	.0463	10	.1012	.0196	.0184
171	143.1169	1.8974	.0448	11	.1208	.0222	.0202
172	145.0143	1.9041	.0434	12	.1430	.0251	.0220
173	146.9184	1.9106	.0420	13	.1681	.0283	.0239
174	148.8290	1.9167	.0405	14	.1964	.0318	.0257
175	150.7457	1.9228	.0390	15	.2282	.0353	.0274
176	152.6685	1.9285	.0375	16	.2635	.0393	.0293
177	154.5970	1.9340	.0360	17	.3028	.0433	.0310
178	156.5310	1.9393	.0345	18	.3461	.0478	.0328
179	158.4703	1.9444	.0330	19	.3939	.0523	.0345
180	160.4147	1.9492	.0315	20	.4462	.0571	.0363
181	162.3639	1.9538	.0300	21	.5033	.0622	.0381
182	164.3177	1.9582	.0284	22	.5655	.0675	.0398
183	166.2759	1.9623	.0269	23	.6330	.0730	.0415
184	168.2382	1.9662	.0253	24	.7060	.0787	.0433
185	170.2044	1.9698	.0238	25	.7847	.0848	.0450
186	172.1742	1.9733	.0222	26	.8695	.0909	.0466
187	174.1475	1.9764	.0206	27	.9604	.0973	.0484
188	176.1239	1.9793	.0191	28	1.0577	.1040	.0501
189	178.1032	1.9821	.0176	29	1.1617	.1109	.0517
190	180.0853	1.9845	.0159	30	1.2726	.1180	.0534
191	182.0698	1.9866	.0143	31	1.3906	.1252	.0550
192	184.0564	1.9887	.0128	32	1.5158	.1328	.0566
193	186.0451	1.9904	.0112	33	1.6486	.1405	.0582
194	188.0355	1.9918	.0096	34	1.7891	.1485	.0599
195	190.0273	1.9931	.0080	35	1.9376	.1566	.0614
196	192.0204	1.9940	.0064	36	2.0942	.1650	.0630
197	194.0144	1.9948	.0048	37	2.2592	.1736	.0645
198	196.0092	1.9953	.0032	38	2.4328	.1823	.0660
199	198.0045	1.9955	.0016	39	2.6151	.1913	.0676
200	200.0000	1.9955	.0000	40	2.8064	.2005	.0691

$e = 7^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	2.8064	.2005	.0691	80	19.8195	.7003	.1118
41	3.0069	.2099	.0706	81	20.5198	.7152	.1123
42	3.2168	.2194	.0720	82	21.2350	.7302	.1129
43	3.4362	.2292	.0735	83	21.9652	.7453	.1134
44	3.6654	.2391	.0749	84	22.7105	.7603	.1138
45	3.9045	.2493	.0764	85	23.4708	.7756	.1143
46	4.1538	.2596	.0778	86	24.2464	.7908	.1147
47	4.4134	.2702	.0791	87	25.0372	.8061	.1151
48	4.6836	.2808	.0804	88	25.8433	.8214	.1155
49	4.9644	.2916	.0818	89	26.6647	.8368	.1158
50	5.2560	.3027	.0831	90	27.5015	.8523	.1161
51	5.5587	.3140	.0845	91	28.3538	.8676	.1163
52	5.8727	.3253	.0857	92	29.2214	.8832	.1167
53	6.1980	.3368	.0869	93	30.1046	.8987	.1168
54	6.5348	.3486	.0882	94	31.0033	.9142	.1170
55	6.8834	.3604	.0894	95	31.9175	.9298	.1172
56	7.2438	.3725	.0906	96	32.8473	.9454	.1173
57	7.6163	.3847	.0917	97	33.7927	.9610	.1174
58	8.0010	.3969	.0928	98	34.7537	.9766	.1175
59	8.3979	.4095	.0940	99	35.7303	.9922	.1175
60	8.8074	.4221	.0951	100	36.7225	1.0078	.1175
61	9.2295	.4349	.0962	101	37.7303	1.0234	.1175
62	9.6644	.4478	.0972	102	38.7537	1.0390	.1175
63	10.1122	.4608	.0982	103	39.7927	1.0546	.1174
64	10.5730	.4740	.0993	104	40.8473	1.0702	.1173
65	11.0470	.4874	.1003	105	41.9175	1.0858	.1172
66	11.5344	.5008	.1011	106	43.0033	1.1013	.1170
67	12.0352	.5143	.1020	107	44.1046	1.1168	.1168
68	12.5495	.5280	.1030	108	45.2214	1.1324	.1167
69	13.0775	.5418	.1039	109	46.3538	1.1477	.1163
70	13.6193	.5557	.1047	110	47.5015	1.1632	.1161
71	14.1750	.5698	.1056	111	48.6647	1.1786	.1158
72	14.7448	.5839	.1063	112	49.8433	1.1939	.1155
73	15.3287	.5981	.1071	113	51.0372	1.2092	.1151
74	15.9268	.6124	.1078	114	52.2464	1.2244	.1147
75	16.5392	.6269	.1086	115	53.4708	1.2397	.1143
76	17.1661	.6413	.1092	116	54.7105	1.2547	.1138
77	17.8074	.6560	.1100	117	55.9652	1.2698	.1134
78	18.4634	.6707	.1106	118	57.2350	1.2848	.1129
79	19.1341	.6854	.1112	119	58.5198	1.2997	.1123
80	19.8195	.7003	.1118	120	59.8195	1.3146	.1118



$e = 7^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	59.8195	1.3146	.1118	160	122.8064	1.8087	.0691
121	61.1341	1.3293	.1112	161	124.6151	1.8177	.0676
122	62.4634	1.3440	.1106	162	126.4328	1.8264	.0660
123	63.8074	1.3587	.1100	163	128.2592	1.8350	.0645
124	65.1661	1.3731	.1092	164	130.0942	1.8434	.0630
125	66.5392	1.3876	.1086	165	131.9376	1.8515	.0614
126	67.9268	1.4019	.1078	166	133.7891	1.8595	.0599
127	69.3287	1.4161	.1071	167	135.6486	1.8672	.0582
128	70.7448	1.4302	.1063	168	137.5158	1.8748	.0566
129	72.1750	1.4443	.1056	169	139.3906	1.8820	.0550
130	73.6193	1.4582	.1047	170	141.2726	1.8891	.0534
131	75.0775	1.4720	.1039	171	143.1617	1.8960	.0517
132	76.5495	1.4857	.1030	172	145.0577	1.9027	.0501
133	78.0352	1.4992	.1020	173	146.9604	1.9091	.0484
134	79.5344	1.5126	.1011	174	148.8695	1.9152	.0466
135	81.0470	1.5260	.1003	175	150.7847	1.9213	.0450
136	82.5730	1.5392	.0993	176	152.7060	1.9270	.0433
137	84.1122	1.5522	.0982	177	154.6330	1.9325	.0415
138	85.6644	1.5651	.0972	178	156.5655	1.9378	.0398
139	87.2295	1.5779	.0962	179	158.5033	1.9429	.0381
140	88.8074	1.5905	.0951	180	160.4462	1.9477	.0363
141	90.3979	1.6031	.0940	181	162.3939	1.9522	.0345
142	92.0010	1.6153	.0928	182	164.3461	1.9567	.0328
143	93.6163	1.6275	.0917	183	166.3028	1.9607	.0310
144	95.2438	1.6396	.0906	184	168.2635	1.9647	.0293
145	96.8834	1.6514	.0894	185	170.2282	1.9682	.0274
146	98.5348	1.6632	.0882	186	172.1964	1.9717	.0257
147	100.1980	1.6747	.0869	187	174.1681	1.9749	.0239
148	101.8727	1.6860	.0857	188	176.1430	1.9778	.0220
149	103.5587	1.6973	.0845	189	178.1208	1.9804	.0202
150	105.2560	1.7084	.0831	190	180.1012	1.9829	.0184
151	106.9644	1.7192	.0818	191	182.0841	1.9851	.0166
152	108.6836	1.7298	.0804	192	184.0692	1.9871	.0148
153	110.4134	1.7404	.0791	193	186.0563	1.9888	.0129
154	112.1538	1.7507	.0778	194	188.0451	1.9902	.0110
155	113.9045	1.7609	.0764	195	190.0353	1.9915	.0092
156	115.6654	1.7708	.0749	196	192.0268	1.9924	.0074
157	117.4362	1.7806	.0735	197	194.0192	1.9932	.0056
158	119.2168	1.7901	.0720	198	196.0124	1.9937	.0037
159	121.0069	1.7995	.0706	199	198.0061	1.9939	.0018
160	122.8064	1.8087	.0691	200	200.0000	1.9939	.0000

$e = 8^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0079	.0000	40	2.8755	.2020	.0782
1	.0079	.0082	.0021	41	3.0775	.2113	.0799
2	.0161	.0087	.0042	42	3.2888	.2209	.0816
3	.0248	.0094	.0062	43	3.5097	.2306	.0832
4	.0342	.0103	.0083	44	3.7403	.2406	.0849
5	.0445	.0116	.0105	45	3.9809	.2507	.0864
6	.0561	.0131	.0125	46	4.2316	.2609	.0880
7	.0692	.0148	.0146	47	4.4925	.2715	.0896
8	.0840	.0167	.0166	48	4.7640	.2822	.0911
9	.1007	.0189	.0187	49	5.0462	.2929	.0926
10	.1196	.0214	.0208	50	5.3391	.3041	.0942
11	.1410	.0240	.0228	51	5.6432	.3152	.0956
12	.1650	.0270	.0249	52	5.9584	.3265	.0970
13	.1920	.0301	.0270	53	6.2849	.3381	.0985
14	.2221	.0335	.0290	54	6.6230	.3498	.0999
15	.2556	.0372	.0311	55	6.9728	.3616	.1012
16	.2928	.0410	.0331	56	7.3344	.3736	.1026
17	.3338	.0451	.0351	57	7.7080	.3858	.1039
18	.3789	.0495	.0372	58	8.0938	.3981	.1052
19	.4284	.0541	.0392	59	8.4919	.4106	.1065
20	.4825	.0589	.0411	60	8.9025	.4232	.1077
21	.5414	.0639	.0431	61	9.3257	.4359	.1089
22	.6053	.0692	.0451	62	9.7616	.4488	.1101
23	.6745	.0748	.0471	63	10.2104	.4619	.1113
24	.7493	.0804	.0490	64	10.6723	.4750	.1124
25	.8297	.0864	.0510	65	11.1473	.4882	.1135
26	.9161	.0927	.0529	66	11.6355	.5017	.1146
27	1.0088	.0990	.0547	67	12.1372	.5153	.1157
28	1.1078	.1056	.0567	68	12.6525	.5289	.1166
29	1.2134	.1126	.0586	69	13.1814	.5426	.1176
30	1.3260	.1196	.0604	70	13.7240	.5566	.1187
31	1.4456	.1268	.0623	71	14.2806	.5705	.1195
32	1.5724	.1344	.0642	72	14.8511	.5847	.1205
33	1.7068	.1422	.0660	73	15.4358	.5988	.1213
34	1.8490	.1500	.0677	74	16.0346	.6132	.1222
35	1.9990	.1582	.0696	75	16.6478	.6275	.1230
36	2.1572	.1665	.0713	76	17.2753	.6421	.1238
37	2.3237	.1751	.0731	77	17.9174	.6566	.1245
38	2.4988	.1839	.0748	78	18.5740	.6713	.1252
39	2.6827	.1928	.0765	79	19.2453	.6860	.1259
40	2.8755	.2020	.0782	80	19.9313	.7008	.1266

$e = 8^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	19.9313	.7008	.1266	120	59.9313	1.3140	.1266
81	20.6321	.7158	.1273	121	61.2453	1.3287	.1259
82	21.3479	.7307	.1278	122	62.5740	1.3434	.1252
83	22.0786	.7457	.1284	123	63.9174	1.3579	.1245
84	22.8243	.7608	.1289	124	65.2753	1.3725	.1238
85	23.5851	.7760	.1295	125	66.6478	1.3868	.1230
86	24.3611	.7912	.1299	126	68.0346	1.4012	.1222
87	25.1523	.8065	.1304	127	69.4358	1.4153	.1213
88	25.9588	.8217	.1307	128	70.8511	1.4295	.1205
89	26.7805	.8371	.1311	129	72.2806	1.4434	.1195
90	27.6176	.8525	.1315	130	73.7240	1.4574	.1187
91	28.4701	.8680	.1318	131	75.1814	1.4711	.1176
92	29.3381	.8833	.1320	132	76.6525	1.4847	.1166
93	30.2214	.8989	.1324	133	78.1372	1.4983	.1157
94	31.1203	.9144	.1326	134	79.6355	1.5118	.1146
95	32.0347	.9299	.1327	135	81.1473	1.5250	.1135
96	32.9646	.9455	.1329	136	82.6723	1.5381	.1124
97	33.9101	.9611	.1330	137	84.2104	1.5512	.1113
98	34.8712	.9766	.1330	138	85.7616	1.5641	.1101
99	35.8478	.9922	.1331	139	87.3257	1.5768	.1089
100	36.8400	1.0078	.1331	140	88.9025	1.5894	.1077
101	37.8478	1.0234	.1331	141	90.4919	1.6019	.1065
102	38.8712	1.0389	.1330	142	92.0938	1.6142	.1052
103	39.9101	1.0545	.1330	143	93.7080	1.6264	.1039
104	40.9646	1.0701	.1329	144	95.3344	1.6384	.1026
105	42.0347	1.0856	.1327	145	96.9728	1.6502	.1012
106	43.1203	1.1011	.1326	146	98.6230	1.6619	.0999
107	44.2214	1.1167	.1324	147	100.2849	1.6735	.0985
108	45.3381	1.1320	.1320	148	101.9584	1.6848	.0970
109	46.4701	1.1475	.1318	149	103.6432	1.6959	.0956
110	47.6176	1.1629	.1315	150	105.3391	1.7071	.0942
111	48.7805	1.1783	.1311	151	107.0462	1.7178	.0926
112	49.9588	1.1935	.1307	152	108.7640	1.7285	.0911
113	51.1523	1.2088	.1304	153	110.4925	1.7391	.0896
114	52.3611	1.2240	.1299	154	112.2316	1.7493	.0880
115	53.5851	1.2392	.1295	155	113.9809	1.7594	.0864
116	54.8243	1.2543	.1289	156	115.7403	1.7694	.0849
117	56.0786	1.2693	.1284	157	117.5097	1.7791	.0832
118	57.3479	1.2842	.1278	158	119.2888	1.7887	.0816
119	58.6321	1.2992	.1273	159	121.0775	1.7980	.0799
120	59.9313	1.3140	.1266	160	122.8755	1.8072	.0782

$e = 8^c$				$e = 9^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	122.8755	1.8072	.0782	0	.0000	.0100	.0000
161	124.6827	1.8161	.0765	1	.0100	.0103	.0024
162	126.4988	1.8249	.0748	2	.0203	.0107	.0046
163	128.3237	1.8335	.0731	3	.0310	.0115	.0070
164	130.1572	1.8418	.0713	4	.0425	.0125	.0093
165	131.9990	1.8500	.0696	5	.0550	.0136	.0116
166	133.8490	1.8578	.0677	6	.0686	.0152	.0140
167	135.7068	1.8656	.0660	7	.0838	.0168	.0163
168	137.5724	1.8732	.0642	8	.1006	.0188	.0187
169	139.4456	1.8804	.0623	9	.1194	.0210	.0210
170	141.3260	1.8874	.0604	10	.1404	.0234	.0233
171	143.2134	1.8944	.0586	11	.1638	.0261	.0256
172	145.1078	1.9010	.0567	12	.1899	.0291	.0279
173	147.0088	1.9073	.0547	13	.2190	.0321	.0301
174	148.9161	1.9136	.0529	14	.2511	.0356	.0324
175	150.8297	1.9196	.0510	15	.2867	.0392	.0347
176	152.7493	1.9252	.0490	16	.3259	.0430	.0369
177	154.6745	1.9308	.0471	17	.3689	.0472	.0392
178	156.6053	1.9361	.0451	18	.4161	.0515	.0414
179	158.5414	1.9411	.0431	19	.4676	.0560	.0437
180	160.4825	1.9459	.0411	20	.5236	.0609	.0460
181	162.4284	1.9505	.0392	21	.5845	.0659	.0482
182	164.3789	1.9549	.0372	22	.6504	.0712	.0504
183	166.3338	1.9590	.0351	23	.7216	.0767	.0525
184	168.2928	1.9628	.0331	24	.7983	.0824	.0547
185	170.2556	1.9665	.0311	25	.8807	.0883	.0569
186	172.2221	1.9699	.0290	26	.9690	.0945	.0591
187	174.1920	1.9730	.0270	27	1.0635	.1010	.0612
188	176.1650	1.9760	.0249	28	1.1645	.1075	.0633
189	178.1410	1.9786	.0228	29	1.2720	.1144	.0654
190	180.1196	1.9811	.0208	30	1.3864	.1215	.0675
191	182.1007	1.9833	.0187	31	1.5079	.1287	.0695
192	184.0840	1.9852	.0166	32	1.6366	.1362	.0716
193	186.0692	1.9869	.0146	33	1.7728	.1439	.0737
194	188.0561	1.9884	.0125	34	1.9167	.1519	.0757
195	190.0445	1.9897	.0105	35	2.0686	.1599	.0776
196	192.0342	1.9906	.0083	36	2.2285	.1683	.0797
197	194.0248	1.9913	.0062	37	2.3968	.1768	.0816
198	196.0161	1.9918	.0042	38	2.5736	.1856	.0836
199	198.0079	1.9921	.0021	39	2.7592	.1945	.0855
200	200.0000	1.9921	.0000	40	2.9537	.2037	.0874

$e = 9^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	2.9537	.2037	.0874	80	20.0579	.7015	.1414
41	3.1574	.2130	.0893	81	20.7594	.7163	.1421
42	3.3704	.2225	.0911	82	21.4757	.7313	.1428
43	3.5929	.2323	.0930	83	22.2070	.7462	.1434
44	3.8252	.2421	.0947	84	22.9532	.7614	.1440
45	4.0673	.2523	.0966	85	23.7146	.7764	.1445
46	4.3196	.2625	.0983	86	24.4910	.7917	.1451
47	4.5821	.2730	.1001	87	25.2827	.8068	.1455
48	4.8551	.2837	.1018	88	26.0895	.8221	.1461
49	5.1388	.2945	.1035	89	26.9116	.8375	.1465
50	5.4333	.3055	.1051	90	27.7491	.8528	.1468
51	5.7388	.3166	.1067	91	28.6019	.8682	.1472
52	6.0554	.3280	.1084	92	29.4701	.8837	.1475
53	6.3834	.3395	.1099	93	30.3538	.8991	.1477
54	6.7229	.3511	.1115	94	31.2529	.9145	.1480
55	7.0740	.3630	.1130	95	32.1674	.9301	.1482
56	7.4370	.3749	.1145	96	33.0975	.9456	.1484
57	7.8119	.3871	.1160	97	34.0431	.9611	.1485
58	8.1990	.3994	.1175	98	35.0042	.9767	.1486
59	8.5984	.4118	.1189	99	35.9809	.9922	.1487
60	9.0102	.4244	.1203	100	36.9731	1.0078	.1487
61	9.4346	.4371	.1216	101	37.9809	1.0233	.1487
62	9.8717	.4500	.1230	102	39.0042	1.0389	.1486
63	10.3217	.4630	.1242	103	40.0431	1.0544	.1485
64	10.7847	.4761	.1255	104	41.0975	1.0699	.1484
65	11.2608	.4893	.1267	105	42.1674	1.0855	.1482
66	11.7501	.5028	.1280	106	43.2529	1.1009	.1480
67	12.2529	.5162	.1291	107	44.3538	1.1163	.1477
68	12.7691	.5299	.1303	108	45.4701	1.1318	.1475
69	13.2990	.5437	.1314	109	46.6019	1.1472	.1472
70	13.8427	.5574	.1324	110	47.7491	1.1625	.1468
71	14.4001	.5715	.1335	111	48.9116	1.1779	.1465
72	14.9716	.5855	.1345	112	50.0895	1.1932	.1461
73	15.5571	.5997	.1355	113	51.2827	1.2083	.1455
74	16.1568	.6140	.1364	114	52.4910	1.2236	.1451
75	16.7708	.6283	.1373	115	53.7146	1.2386	.1445
76	17.3991	.6428	.1382	116	54.9532	1.2538	.1440
77	18.0419	.6573	.1391	117	56.2070	1.2687	.1434
78	18.6992	.6720	.1399	118	57.4757	1.2837	.1428
79	19.3712	.6867	.1407	119	58.7594	1.2985	.1421
80	20.0579	.7015	.1414	120	60.0579	1.3133	.1414

$e = 9^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	60.0579	1.3133	.1414	160	122.9537	1.8055	.0874
121	61.3712	1.3280	.1407	161	124.7592	1.8144	.0855
122	62.6992	1.3427	.1399	162	126.5736	1.8232	.0836
123	64.0419	1.3572	.1391	163	128.3968	1.8317	.0816
124	65.3991	1.3717	.1382	164	130.2285	1.8401	.0797
125	66.7708	1.3860	.1373	165	132.0686	1.8481	.0776
126	68.1568	1.4003	.1364	166	133.9167	1.8561	.0757
127	69.5571	1.4145	.1355	167	135.7728	1.8638	.0737
128	70.9716	1.4285	.1345	168	137.6366	1.8713	.0716
129	72.4001	1.4426	.1335	169	139.5079	1.8785	.0695
130	73.8427	1.4563	.1324	170	141.3864	1.8856	.0675
131	75.2990	1.4701	.1314	171	143.2720	1.8925	.0654
132	76.7691	1.4838	.1303	172	145.1645	1.8990	.0633
133	78.2529	1.4972	.1291	173	147.0635	1.9055	.0612
134	79.7501	1.5107	.1280	174	148.9690	1.9117	.0591
135	81.2608	1.5239	.1267	175	150.8807	1.9176	.0569
136	82.7847	1.5370	.1255	176	152.7983	1.9233	.0547
137	84.3217	1.5500	.1242	177	154.7216	1.9288	.0525
138	85.8717	1.5629	.1230	178	156.6504	1.9341	.0504
139	87.4346	1.5756	.1216	179	158.5845	1.9391	.0482
140	89.0102	1.5882	.1203	180	160.5236	1.9440	.0460
141	90.5984	1.6006	.1189	181	162.4676	1.9485	.0437
142	92.1990	1.6129	.1175	182	164.4161	1.9528	.0414
143	93.8119	1.6251	.1160	183	166.3689	1.9570	.0392
144	95.4370	1.6370	.1145	184	168.3259	1.9608	.0369
145	97.0740	1.6489	.1130	185	170.2867	1.9644	.0347
146	98.7229	1.6605	.1115	186	172.2511	1.9679	.0324
147	100.3834	1.6720	.1099	187	174.2190	1.9709	.0301
148	102.0554	1.6834	.1084	188	176.1899	1.9739	.0279
149	103.7388	1.6945	.1067	189	178.1638	1.9766	.0256
150	105.4333	1.7055	.1051	190	180.1404	1.9790	.0233
151	107.1388	1.7163	.1035	191	182.1194	1.9812	.0210
152	108.8551	1.7270	.1018	192	184.1006	1.9832	.0187
153	110.5821	1.7375	.1001	193	186.0838	1.9848	.0163
154	112.3196	1.7477	.0983	194	188.0686	1.9864	.0140
155	114.0673	1.7579	.0966	195	190.0550	1.9875	.0116
156	115.8252	1.7677	.0947	196	192.0425	1.9885	.0093
157	117.5929	1.7775	.0930	197	194.0310	1.9893	.0070
158	119.3704	1.7870	.0911	198	196.0203	1.9897	.0046
159	121.1574	1.7963	.0893	199	198.0100	1.9900	.0024
160	122.9537	1.8055	.0874	200	200.0000	1.9900	.0000

$e = 10^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0124	.0000	40	3.0411	.2056	.0965
1	.0124	.0125	.0025	41	3.2467	.2148	.0985
2	.0249	.0131	.0052	42	3.4615	.2244	.1006
3	.0380	.0138	.0078	43	3.6859	.2340	.1026
4	.0518	.0148	.0104	44	3.9199	.2440	.1047
5	.0666	.0160	.0129	45	4.1639	.2540	.1066
6	.0826	.0175	.0155	46	4.4179	.2643	.1086
7	.1001	.0192	.0180	47	4.6822	.2747	.1105
8	.1193	.0211	.0206	48	4.9569	.2854	.1124
9	.1404	.0233	.0231	49	5.2423	.2961	.1142
10	.1637	.0257	.0257	50	5.5384	.3071	.1161
11	.1894	.0284	.0282	51	5.8455	.3183	.1179
12	.2178	.0313	.0308	52	6.1638	.3295	.1197
13	.2491	.0344	.0333	53	6.4933	.3411	.1215
14	.2835	.0379	.0359	54	6.8344	.3526	.1231
15	.3214	.0414	.0383	55	7.1870	.3645	.1249
16	.3628	.0453	.0409	56	7.5515	.3764	.1265
17	.4081	.0494	.0434	57	7.9279	.3886	.1282
18	.4575	.0538	.0458	58	8.3165	.4008	.1297
19	.5113	.0583	.0483	59	8.7173	.4132	.1313
20	.5696	.0631	.0507	60	9.1305	.4257	.1328
21	.6327	.0681	.0531	61	9.5562	.4385	.1344
22	.7008	.0733	.0556	62	9.9947	.4512	.1358
23	.7741	.0789	.0581	63	10.4459	.4643	.1373
24	.8530	.0846	.0604	64	10.9102	.4773	.1386
25	.9376	.0905	.0628	65	11.3875	.4906	.1400
26	1.0281	.0966	.0652	66	11.8781	.5039	.1413
27	1.1247	.1031	.0676	67	12.3820	.5174	.1426
28	1.2278	.1096	.0699	68	12.8994	.5310	.1439
29	1.3374	.1165	.0723	69	13.4304	.5447	.1451
30	1.4539	.1235	.0745	70	13.9751	.5585	.1463
31	1.5774	.1308	.0768	71	14.5336	.5725	.1475
32	1.7082	.1383	.0791	72	15.1061	.5865	.1486
33	1.8465	.1459	.0813	73	15.6926	.6006	.1496
34	1.9924	.1538	.0836	74	16.2932	.6149	.1507
35	2.1462	.1620	.0858	75	16.9081	.6292	.1517
36	2.3082	.1702	.0880	76	17.5373	.6437	.1527
37	2.4784	.1788	.0902	77	18.1810	.6581	.1536
38	2.6572	.1875	.0923	78	18.8391	.6728	.1545
39	2.8447	.1964	.0944	79	19.5119	.6874	.1553
40	3.0411	.2056	.0965	80	20.1993	.7022	.1561

$e = 10^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	20.1993	.7022	.1561	120	60.1993	1.3126	.1561
81	20.9015	.7170	.1569	121	61.5119	1.3272	.1553
82	21.6185	.7319	.1576	122	62.8391	1.3419	.1545
83	22.3504	.7468	.1583	123	64.1810	1.3563	.1536
84	23.0972	.7619	.1591	124	65.5373	1.3708	.1527
85	23.8591	.7770	.1597	125	66.9081	1.3851	.1517
86	24.6361	.7921	.1602	126	68.2932	1.3994	.1507
87	25.4282	.8074	.1608	127	69.6926	1.4135	.1496
88	26.2356	.8225	.1612	128	71.1061	1.4275	.1486
89	27.0581	.8378	.1617	129	72.5336	1.4415	.1475
90	27.8959	.8532	.1622	130	73.9751	1.4553	.1463
91	28.7491	.8685	.1625	131	75.4304	1.4690	.1451
92	29.6176	.8839	.1629	132	76.8994	1.4826	.1439
93	30.5015	.8994	.1632	133	78.3820	1.4961	.1426
94	31.4009	.9147	.1634	134	79.8781	1.5094	.1413
95	32.3156	.9303	.1637	135	81.3875	1.5227	.1400
96	33.2459	.9457	.1638	136	82.9102	1.5357	.1386
97	34.1916	.9612	.1640	137	84.4459	1.5488	.1373
98	35.1528	.9768	.1641	138	85.9947	1.5615	.1358
99	36.1296	.9922	.1641	139	87.5562	1.5743	.1344
100	37.1218	1.0078	.1642	140	89.1305	1.5868	.1328
101	38.1296	1.0232	.1641	141	90.7173	1.5992	.1313
102	39.1528	1.0388	.1641	142	92.3165	1.6114	.1297
103	40.1916	1.0543	.1640	143	93.9279	1.6236	.1282
104	41.2459	1.0697	.1638	144	95.5515	1.6355	.1265
105	42.3156	1.0853	.1637	145	97.1870	1.6474	.1249
106	43.4009	1.1006	.1634	146	98.8344	1.6589	.1231
107	44.5015	1.1161	.1632	147	100.4933	1.6705	.1215
108	45.6176	1.1315	.1629	148	102.1638	1.6817	.1197
109	46.7491	1.1468	.1625	149	103.8455	1.6929	.1179
110	47.8959	1.1622	.1622	150	105.5384	1.7039	.1161
111	49.0581	1.1775	.1617	151	107.2423	1.7146	.1142
112	50.2356	1.1926	.1612	152	108.9569	1.7253	.1124
113	51.4282	1.2079	.1608	153	110.6822	1.7357	.1105
114	52.6361	1.2230	.1602	154	112.4179	1.7460	.1086
115	53.8591	1.2381	.1597	155	114.1639	1.7560	.1066
116	55.0972	1.2532	.1591	156	115.9199	1.7660	.1047
117	56.3504	1.2681	.1583	157	117.6859	1.7756	.1026
118	57.6185	1.2830	.1576	158	119.4615	1.7852	.1006
119	58.9015	1.2978	.1569	159	121.2467	1.7944	.0985
120	60.1993	1.3126	.1561	160	123.0411	1.8036	.0965



$e = 10^c$				$e = 11^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	123.0411	1.8036	.0965	0	.0000	.0149	.0000
161	124.8447	1.8125	.0944	1	.0149	.0152	.0029
162	126.6572	1.8212	.0923	2	.0301	.0157	.0056
163	128.4784	1.8298	.0902	3	.0458	.0164	.0084
164	130.3082	1.8380	.0880	4	.0622	.0173	.0112
165	132.1462	1.8462	.0858	5	.0795	.0186	.0141
166	133.9924	1.8541	.0836	6	.0981	.0200	.0169
167	135.8465	1.8617	.0813	7	.1181	.0218	.0197
168	137.7082	1.8692	.0791	8	.1399	.0236	.0225
169	139.5774	1.8765	.0768	9	.1635	.0259	.0253
170	141.4539	1.8835	.0745	10	.1894	.0282	.0281
171	143.3374	1.8904	.0723	11	.2176	.0310	.0309
172	145.2278	1.8969	.0699	12	.2486	.0338	.0336
173	147.1247	1.9034	.0676	13	.2824	.0370	.0364
174	149.0281	1.9095	.0652	14	.3194	.0403	.0392
175	150.9376	1.9154	.0628	15	.3597	.0440	.0419
176	152.8530	1.9211	.0604	16	.4037	.0478	.0446
177	154.7741	1.9267	.0581	17	.4515	.0518	.0474
178	156.7008	1.9319	.0556	18	.5033	.0563	.0502
179	158.6327	1.9369	.0531	19	.5596	.0607	.0528
180	160.5696	1.9417	.0507	20	.6203	.0655	.0555
181	162.5113	1.9462	.0483	21	.6858	.0706	.0582
182	164.4575	1.9506	.0458	22	.7564	.0758	.0608
183	166.4081	1.9547	.0434	23	.8322	.0812	.0635
184	168.3628	1.9586	.0409	24	.9134	.0870	.0662
185	170.3214	1.9621	.0383	25	1.0004	.0929	.0687
186	172.2835	1.9656	.0359	26	1.0933	.0990	.0713
187	174.2491	1.9687	.0333	27	1.1923	.1054	.0739
188	176.2178	1.9716	.0308	28	1.2977	.1120	.0765
189	178.1894	1.9743	.0282	29	1.4097	.1187	.0790
190	180.1637	1.9767	.0257	30	1.5284	.1258	.0816
191	182.1404	1.9789	.0231	31	1.6542	.1331	.0841
192	184.1193	1.9808	.0206	32	1.7873	.1405	.0865
193	186.1001	1.9825	.0180	33	1.9278	.1482	.0890
194	188.0826	1.9840	.0155	34	2.0760	.1560	.0914
195	190.0666	1.9852	.0129	35	2.2320	.1642	.0939
196	192.0518	1.9862	.0104	36	2.3962	.1724	.0962
197	194.0380	1.9869	.0078	37	2.5686	.1809	.0986
198	196.0249	1.9875	.0052	38	2.7495	.1896	.1010
199	198.0124	1.9876	.0025	39	2.9391	.1985	.1033
200	200.0000	1.9876	.0000	40	3.1376	.2076	.1056

$e = 11^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	3.1376	.2076	.1056	80	20.3554	.7030	.1709
41	3.3452	.2169	.1079	81	21.0584	.7177	.1717
42	3.5621	.2264	.1102	82	21.7761	.7326	.1726
43	3.7885	.2361	.1124	83	22.5087	.7476	.1733
44	4.0246	.2459	.1145	84	23.2563	.7625	.1740
45	4.2705	.2560	.1167	85	24.0188	.7775	.1747
46	4.5265	.2662	.1188	86	24.7963	.7927	.1754
47	4.7927	.2766	.1209	87	25.5890	.8078	.1759
48	5.0693	.2872	.1230	88	26.3968	.8230	.1765
49	5.3565	.2980	.1250	89	27.2198	.8383	.1770
50	5.6545	.3089	.1270	90	28.0581	.8535	.1775
51	5.9634	.3201	.1290	91	28.9116	.8689	.1779
52	6.2835	.3313	.1309	92	29.7805	.8842	.1783
53	6.6148	.3427	.1329	93	30.6647	.8996	.1786
54	6.9575	.3544	.1348	94	31.5643	.9150	.1789
55	7.3119	.3661	.1366	95	32.4793	.9304	.1791
56	7.6780	.3781	.1385	96	33.4097	.9459	.1793
57	8.0561	.3901	.1402	97	34.3556	.9613	.1795
58	8.4462	.4024	.1420	98	35.3169	.9768	.1796
59	8.8486	.4147	.1436	99	36.2937	.9923	.1797
60	9.2633	.4273	.1453	100	37.2860	1.0077	.1797
61	9.6906	.4399	.1469	101	38.2937	1.0232	.1797
62	10.1305	.4527	.1486	102	39.3169	1.0387	.1796
63	10.5832	.4656	.1501	103	40.3556	1.0541	.1795
64	11.0488	.4787	.1517	104	41.4097	1.0696	.1793
65	11.5275	.4919	.1532	105	42.4793	1.0850	.1791
66	12.0194	.5052	.1547	106	43.5643	1.1004	.1789
67	12.5246	.5187	.1561	107	44.6647	1.1158	.1786
68	13.0433	.5322	.1574	108	45.7805	1.1311	.1783
69	13.5755	.5459	.1588	109	46.9116	1.1465	.1779
70	14.1214	.5597	.1601	110	48.0581	1.1617	.1775
71	14.6811	.5736	.1613	111	49.2198	1.1770	.1770
72	15.2547	.5875	.1625	112	50.3968	1.1922	.1765
73	15.8422	.6017	.1638	113	51.5890	1.2073	.1759
74	16.4439	.6159	.1649	114	52.7963	1.2225	.1754
75	17.0598	.6302	.1660	115	54.0188	1.2375	.1747
76	17.6900	.6446	.1670	116	55.2563	1.2524	.1740
77	18.3346	.6590	.1680	117	56.5087	1.2674	.1733
78	18.9936	.6736	.1690	118	57.7761	1.2823	.1726
79	19.6672	.6882	.1700	119	59.0584	1.2970	.1717
80	20.3554	.7030	.1709	120	60.3554	1.3118	.1709

$e = 11^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	60.3554	1.3118	.1709	160	123.1376	1.8015	.1056
121	61.6672	1.3264	.1700	161	124.9391	1.8104	.1033
122	62.9936	1.3410	.1690	162	126.7495	1.8191	.1010
123	64.3346	1.3554	.1680	163	128.5686	1.8276	.0986
124	65.6900	1.3698	.1670	164	130.3962	1.8358	.0962
125	67.0598	1.3841	.1660	165	132.2320	1.8440	.0939
126	68.4439	1.3983	.1649	166	134.0760	1.8518	.0914
127	69.8422	1.4125	.1638	167	135.9278	1.8595	.0890
128	71.2547	1.4264	.1625	168	137.7873	1.8669	.0865
129	72.6811	1.4403	.1613	169	139.6542	1.8742	.0841
130	74.1214	1.4541	.1601	170	141.5284	1.8813	.0816
131	75.5755	1.4678	.1588	171	143.4097	1.8880	.0790
132	77.0433	1.4813	.1574	172	145.2977	1.8946	.0765
133	78.5246	1.4948	.1561	173	147.1923	1.9010	.0739
134	80.0194	1.5081	.1547	174	149.0933	1.9071	.0713
135	81.5275	1.5213	.1532	175	151.0004	1.9130	.0687
136	83.0488	1.5344	.1517	176	152.9134	1.9188	.0662
137	84.5832	1.5473	.1501	177	154.8322	1.9242	.0635
138	86.1305	1.5601	.1486	178	156.7564	1.9294	.0608
139	87.6906	1.5727	.1469	179	158.6858	1.9345	.0582
140	89.2633	1.5853	.1453	180	160.6203	1.9393	.0555
141	90.8486	1.5976	.1436	181	162.5596	1.9437	.0528
142	92.4462	1.6099	.1420	182	164.5033	1.9482	.0502
143	94.0561	1.6219	.1402	183	166.4515	1.9522	.0474
144	95.6780	1.6339	.1385	184	168.4037	1.9560	.0446
145	97.3119	1.6456	.1366	185	170.3597	1.9597	.0419
146	98.9575	1.6573	.1348	186	172.3194	1.9630	.0392
147	100.6148	1.6687	.1329	187	174.2824	1.9662	.0364
148	102.2835	1.6799	.1309	188	176.2486	1.9690	.0336
149	103.9634	1.6911	.1290	189	178.2176	1.9718	.0309
150	105.6545	1.7020	.1270	190	180.1894	1.9741	.0281
151	107.3565	1.7128	.1250	191	182.1635	1.9764	.0253
152	109.0693	1.7234	.1230	192	184.1399	1.9782	.0225
153	110.7927	1.7338	.1209	193	186.1181	1.9800	.0197
154	112.5265	1.7440	.1188	194	188.0981	1.9814	.0169
155	114.2705	1.7541	.1167	195	190.0795	1.9827	.0141
156	116.0246	1.7639	.1145	196	192.0622	1.9836	.0112
157	117.7885	1.7736	.1124	197	194.0458	1.9843	.0084
158	119.5621	1.7831	.1102	198	196.0301	1.9848	.0056
159	121.3452	1.7924	.1079	199	198.0149	1.9851	.0029
160	123.1376	1.8015	.1056	200	200.0000	1.9851	.0000

$e = 12^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0178	.0000	40	3.2432	.2099	.1147
1	.0178	.0179	.0030	41	3.4531	.2192	.1171
2	.0357	.0185	.0062	42	3.6723	.2286	.1195
3	.0542	.0192	.0092	43	3.9009	.2382	.1219
4	.0734	.0202	.0123	44	4.1391	.2481	.1244
5	.0936	.0214	.0153	45	4.3872	.2581	.1267
6	.1150	.0228	.0184	46	4.6453	.2683	.1290
7	.1378	.0246	.0214	47	4.9136	.2787	.1313
8	.1624	.0264	.0244	48	5.1923	.2892	.1335
9	.1888	.0287	.0275	49	5.4815	.3000	.1358
10	.2175	.0310	.0305	50	5.7815	.3109	.1380
11	.2485	.0337	.0336	51	6.0924	.3220	.1401
12	.2822	.0366	.0366	52	6.4144	.3333	.1422
13	.3188	.0398	.0396	53	6.7477	.3446	.1442
14	.3586	.0430	.0425	54	7.0923	.3562	.1463
15	.4016	.0467	.0456	55	7.4485	.3680	.1484
16	.4483	.0506	.0486	56	7.8165	.3798	.1503
17	.4989	.0546	.0514	57	8.1963	.3919	.1522
18	.5535	.0589	.0544	58	8.5882	.4040	.1541
19	.6124	.0634	.0573	59	8.9922	.4164	.1560
20	.6758	.0682	.0603	60	9.4086	.4289	.1579
21	.7440	.0732	.0632	61	9.8375	.4416	.1597
22	.8172	.0785	.0661	62	10.2791	.4542	.1613
23	.8957	.0839	.0689	63	10.7333	.4672	.1631
24	.9796	.0895	.0718	64	11.2005	.4802	.1647
25	1.0691	.0955	.0747	65	11.6807	.4934	.1663
26	1.1646	.1016	.0775	66	12.1741	.5066	.1679
27	1.2662	.1080	.0803	67	12.6807	.5200	.1695
28	1.3742	.1145	.0830	68	13.2007	.5336	.1710
29	1.4887	.1213	.0858	69	13.7343	.5472	.1724
30	1.6100	.1283	.0886	70	14.2815	.5609	.1738
31	1.7383	.1355	.0913	71	14.8424	.5748	.1752
32	1.8738	.1430	.0940	72	15.4172	.5888	.1766
33	2.0168	.1506	.0967	73	16.0060	.6028	.1778
34	2.1674	.1585	.0993	74	16.6088	.6170	.1791
35	2.3259	.1665	.1019	75	17.2258	.6312	.1802
36	2.4924	.1748	.1046	76	17.8570	.6456	.1814
37	2.6672	.1833	.1071	77	18.5026	.6600	.1825
38	2.8505	.1919	.1096	78	19.1626	.6746	.1836
39	3.0424	.2008	.1122	79	19.8372	.6891	.1845
40	3.2432	.2099	.1147	80	20.5263	.7038	.1855

$e = 12^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	20.5263	.7038	.1855	120	60.5263	1.3109	.1855
81	21.2301	.7186	.1865	121	61.8372	1.3254	.1845
82	21.9487	.7333	.1873	122	63.1626	1.3400	.1836
83	22.6820	.7483	.1882	123	64.5026	1.3544	.1825
84	23.4303	.7632	.1889	124	65.8570	1.3688	.1814
85	24.1935	.7782	.1897	125	67.2258	1.3830	.1802
86	24.9717	.7932	.1904	126	68.6088	1.3972	.1791
87	25.7649	.8084	.1911	127	70.0060	1.4112	.1778
88	26.5733	.8235	.1916	128	71.4172	1.4252	.1766
89	27.3968	.8388	.1922	129	72.8424	1.4391	.1752
90	28.2356	.8539	.1926	130	74.2815	1.4528	.1738
91	29.0895	.8693	.1932	131	75.7343	1.4664	.1724
92	29.9588	.8845	.1935	132	77.2007	1.4800	.1710
93	30.8433	.8999	.1939	133	78.6807	1.4934	.1695
94	31.7432	.9152	.1942	134	80.1741	1.5066	.1679
95	32.6584	.9306	.1945	135	81.6807	1.5198	.1663
96	33.5890	.9461	.1948	136	83.2005	1.5328	.1647
97	34.5351	.9614	.1948	137	84.7333	1.5458	.1631
98	35.4965	.9769	.1950	138	86.2791	1.5584	.1613
99	36.4734	.9923	.1950	139	87.8375	1.5711	.1597
100	37.4657	1.0077	.1950	140	89.4086	1.5836	.1579
101	38.4734	1.0231	.1950	141	90.9922	1.5960	.1560
102	39.4965	1.0386	.1950	142	92.5882	1.6081	.1541
103	40.5351	1.0539	.1948	143	94.1963	1.6202	.1522
104	41.5890	1.0694	.1948	144	95.8165	1.6320	.1503
105	42.6584	1.0848	.1945	145	97.4485	1.6438	.1484
106	43.7432	1.1001	.1942	146	99.0923	1.6554	.1463
107	44.8433	1.1155	.1939	147	100.7477	1.6667	.1442
108	45.9588	1.1307	.1935	148	102.4144	1.6780	.1422
109	47.0895	1.1461	.1932	149	104.0924	1.6891	.1401
110	48.2356	1.1612	.1926	150	105.7815	1.7000	.1380
111	49.3968	1.1765	.1922	151	107.4815	1.7108	.1358
112	50.5733	1.1916	.1916	152	109.1923	1.7213	.1335
113	51.7649	1.2068	.1911	153	110.9136	1.7317	.1313
114	52.9717	1.2218	.1904	154	112.6453	1.7419	.1290
115	54.1935	1.2368	.1897	155	114.3872	1.7519	.1267
116	55.4303	1.2517	.1889	156	116.1391	1.7618	.1244
117	56.6820	1.2667	.1882	157	117.9009	1.7714	.1219
118	57.9487	1.2814	.1873	158	119.6723	1.7808	.1195
119	59.2301	1.2962	.1865	159	121.4531	1.7901	.1171
120	60.5263	1.3109	.1855	160	123.2432	1.7992	.1147

$e = 12^c$				$e = 13^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	123.2432	1.7992	.1147	0	.0000	.0208	.0000
161	125.0424	1.8081	.1122	1	.0208	.0211	.0033
162	126.8505	1.8167	.1096	2	.0419	.0215	.0066
163	128.6672	1.8252	.1071	3	.0634	.0223	.0099
164	130.4924	1.8335	.1046	4	.0857	.0232	.0132
165	132.3259	1.8415	.1019	5	.1089	.0245	.0165
166	134.1674	1.8494	.0993	6	.1334	.0258	.0198
167	136.0168	1.8570	.0967	7	.1592	.0276	.0231
168	137.8738	1.8645	.0940	8	.1868	.0295	.0264
169	139.7383	1.8717	.0913	9	.2163	.0317	.0297
170	141.6100	1.8787	.0886	10	.2480	.0341	.0329
171	143.4887	1.8855	.0858	11	.2821	.0367	.0362
172	145.3742	1.8920	.0830	12	.3188	.0396	.0394
173	147.2662	1.8984	.0803	13	.3584	.0427	.0427
174	149.1646	1.9045	.0775	14	.4011	.0461	.0459
175	151.0691	1.9105	.0747	15	.4472	.0497	.0491
176	152.9796	1.9161	.0718	16	.4969	.0534	.0523
177	154.8957	1.9215	.0689	17	.5503	.0576	.0556
178	156.8172	1.9268	.0661	18	.6079	.0618	.0587
179	158.7440	1.9318	.0632	19	.6697	.0664	.0619
180	160.6758	1.9366	.0603	20	.7361	.0711	.0650
181	162.6124	1.9411	.0573	21	.8072	.0761	.0682
182	164.5535	1.9454	.0544	22	.8833	.0813	.0713
183	166.4989	1.9494	.0514	23	.9646	.0868	.0744
184	168.4483	1.9533	.0486	24	1.0514	.0924	.0775
185	170.4016	1.9570	.0456	25	1.1438	.0983	.0805
186	172.3586	1.9602	.0425	26	1.2421	.1044	.0836
187	174.3188	1.9634	.0396	27	1.3465	.1107	.0866
188	176.2822	1.9663	.0366	28	1.4572	.1173	.0896
189	178.2485	1.9690	.0336	29	1.5745	.1241	.0926
190	180.2175	1.9713	.0305	30	1.6986	.1310	.0955
191	182.1888	1.9736	.0275	31	1.8296	.1382	.0985
192	184.1624	1.9754	.0244	32	1.9678	.1457	.1014
193	186.1378	1.9772	.0214	33	2.1135	.1532	.1043
194	188.1150	1.9786	.0184	34	2.2667	.1611	.1072
195	190.0936	1.9798	.0153	35	2.4278	.1692	.1100
196	192.0734	1.9808	.0123	36	2.5970	.1773	.1127
197	194.0542	1.9815	.0092	37	2.7743	.1858	.1156
198	196.0357	1.9821	.0062	38	2.9601	.1945	.1183
199	198.0178	1.9822	.0030	39	3.1546	.2033	.1210
200	200.0000	1.9822	.0000	40	3.3579	.2123	.1237

$e = 13^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	3.3579	.2123	.1237	80	20.7118	.7048	.2002
41	3.5702	.2216	.1264	81	21.4166	.7194	.2011
42	3.7918	.2310	.1290	82	22.1360	.7342	.2021
43	4.0228	.2407	.1316	83	22.8702	.7490	.2030
44	4.2635	.2504	.1341	84	23.6192	.7640	.2039
45	4.5139	.2604	.1367	85	24.3832	.7789	.2046
46	4.7743	.2706	.1392	86	25.1621	.7939	.2054
47	5.0449	.2809	.1416	87	25.9560	.8089	.2061
48	5.3258	.2915	.1441	88	26.7649	.8241	.2068
49	5.6173	.3022	.1465	89	27.5890	.8392	.2073
50	5.9195	.3130	.1488	90	28.4282	.8545	.2079
51	6.2325	.3241	.1512	91	29.2827	.8696	.2083
52	6.5566	.3353	.1535	92	30.1523	.8849	.2088
53	6.8919	.3467	.1557	93	31.0372	.9002	.2092
54	7.2386	.3583	.1579	94	31.9374	.9155	.2095
55	7.5969	.3699	.1600	95	32.8529	.9309	.2098
56	7.9668	.3817	.1621	96	33.7838	.9461	.2100
57	8.3485	.3938	.1643	97	34.7299	.9616	.2103
58	8.7423	.4059	.1663	98	35.6915	.9769	.2104
59	9.1482	.4183	.1684	99	36.6684	.9923	.2105
60	9.5665	.4307	.1703	100	37.6607	1.0077	.2105
61	9.9972	.4432	.1721	101	38.6684	1.0231	.2105
62	10.4404	.4560	.1741	102	39.6915	1.0384	.2104
63	10.8964	.4688	.1759	103	40.7299	1.0539	.2103
64	11.3652	.4818	.1777	104	41.7838	1.0691	.2100
65	11.8470	.4950	.1795	105	42.8529	1.0845	.2098
66	12.3420	.5082	.1811	106	43.9374	1.0998	.2095
67	12.8502	.5215	.1828	107	45.0372	1.1151	.2092
68	13.3717	.5350	.1844	108	46.1523	1.1304	.2088
69	13.9067	.5486	.1860	109	47.2827	1.1455	.2083
70	14.4553	.5623	.1875	110	48.4282	1.1608	.2079
71	15.0176	.5762	.1890	111	49.5890	1.1759	.2073
72	15.5938	.5900	.1904	112	50.7649	1.1911	.2068
73	16.1838	.6041	.1918	113	51.9560	1.2061	.2061
74	16.7879	.6181	.1931	114	53.1621	1.2211	.2054
75	17.4060	.6324	.1945	115	54.3832	1.2360	.2046
76	18.0384	.6467	.1957	116	55.6192	1.2510	.2039
77	18.6851	.6611	.1969	117	56.8702	1.2658	.2030
78	19.3462	.6755	.1980	118	58.1360	1.2806	.2021
79	20.0217	.6901	.1992	119	59.4166	1.2952	.2011
80	20.7118	.7048	.2002	120	60.7118	1.3099	.2002

$e = 13^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	60.7118	1.3099	.2002	160	123.3579	1.7967	.1237
121	62.0217	1.3245	.1992	161	125.1546	1.8055	.1210
122	63.3462	1.3389	.1980	162	126.9601	1.8142	.1183
123	64.6851	1.3533	.1969	163	128.7743	1.8227	.1156
124	66.0384	1.3676	.1957	164	130.5970	1.8308	.1127
125	67.4060	1.3819	.1945	165	132.4278	1.8389	.1100
126	68.7879	1.3959	.1931	166	134.2667	1.8468	.1072
127	70.1838	1.4100	.1918	167	136.1135	1.8543	.1043
128	71.5938	1.4238	.1904	168	137.9678	1.8618	.1014
129	73.0176	1.4377	.1890	169	139.8296	1.8690	.0985
130	74.4553	1.4514	.1875	170	141.6986	1.8759	.0955
131	75.9067	1.4650	.1860	171	143.5745	1.8827	.0926
132	77.3717	1.4785	.1844	172	145.4572	1.8893	.0896
133	78.8502	1.4918	.1828	173	147.3465	1.8956	.0866
134	80.3420	1.5050	.1811	174	149.2421	1.9017	.0836
135	81.8470	1.5182	.1795	175	151.1438	1.9076	.0805
136	83.3652	1.5312	.1777	176	153.0514	1.9132	.0775
137	84.8964	1.5440	.1759	177	154.9646	1.9187	.0744
138	86.4404	1.5568	.1741	178	156.8833	1.9239	.0713
139	87.9972	1.5693	.1721	179	158.8072	1.9289	.0682
140	89.5665	1.5817	.1703	180	160.7361	1.9336	.0650
141	91.1482	1.5941	.1684	181	162.6697	1.9382	.0619
142	92.7423	1.6062	.1663	182	164.6079	1.9424	.0587
143	94.3485	1.6183	.1643	183	166.5503	1.9466	.0556
144	95.9668	1.6301	.1621	184	168.4969	1.9503	.0523
145	97.5969	1.6417	.1600	185	170.4472	1.9539	.0491
146	99.2386	1.6533	.1579	186	172.4011	1.9573	.0459
147	100.8919	1.6647	.1557	187	174.3584	1.9604	.0427
148	102.5566	1.6759	.1535	188	176.3188	1.9633	.0394
149	104.2325	1.6870	.1512	189	178.2821	1.9659	.0362
150	105.9195	1.6978	.1488	190	180.2480	1.9683	.0329
151	107.6173	1.7085	.1465	191	182.2163	1.9705	.0297
152	109.3258	1.7191	.1441	192	184.1868	1.9724	.0264
153	111.0449	1.7294	.1416	193	186.1592	1.9742	.0231
154	112.7743	1.7396	.1392	194	188.1334	1.9755	.0198
155	114.5139	1.7496	.1367	195	190.1089	1.9768	.0165
156	116.2635	1.7593	.1341	196	192.0857	1.9777	.0132
157	118.0228	1.7690	.1316	197	194.0634	1.9785	.0099
158	119.7918	1.7784	.1290	198	196.0419	1.9789	.0066
159	121.5702	1.7877	.1264	199	198.0208	1.9792	.0033
160	123.3579	1.7967	.1237	200	200.0000	1.9792	.0000



$e = 14^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0241	.0000	40	3.4816	.2150	.1327
1	.0241	.0244	.0036	41	3.6966	.2242	.1356
2	.0485	.0248	.0071	42	3.9208	.2336	.1384
3	.0733	.0256	.0107	43	4.1544	.2432	.1412
4	.0989	.0265	.0142	44	4.3976	.2530	.1439
5	.1254	.0278	.0177	45	4.6506	.2629	.1466
6	.1532	.0291	.0212	46	4.9135	.2730	.1493
7	.1823	.0309	.0248	47	5.1865	.2834	.1520
8	.2132	.0328	.0283	48	5.4699	.2939	.1546
9	.2460	.0349	.0318	49	5.7638	.3045	.1571
10	.2809	.0374	.0353	50	6.0683	.3154	.1597
11	.3183	.0399	.0388	51	6.3837	.3264	.1621
12	.3582	.0429	.0423	52	6.7101	.3375	.1646
13	.4011	.0459	.0458	53	7.0476	.3489	.1670
14	.4470	.0493	.0493	54	7.3965	.3604	.1694
15	.4963	.0529	.0527	55	7.7569	.3720	.1717
16	.5492	.0567	.0562	56	8.1289	.3839	.1740
17	.6059	.0607	.0596	57	8.5128	.3958	.1762
18	.6666	.0650	.0630	58	8.9086	.4080	.1784
19	.7316	.0695	.0664	59	9.3166	.4202	.1805
20	.8011	.0743	.0698	60	9.7368	.4325	.1826
21	.8754	.0792	.0731	61	10.1693	.4452	.1848
22	.9546	.0844	.0765	62	10.6145	.4578	.1867
23	1.0390	.0899	.0798	63	11.0723	.4706	.1887
24	1.1289	.0954	.0831	64	11.5429	.4836	.1907
25	1.2243	.1014	.0865	65	12.0265	.4966	.1925
26	1.3257	.1074	.0897	66	12.5231	.5099	.1944
27	1.4331	.1137	.0929	67	13.0330	.5231	.1961
28	1.5468	.1203	.0962	68	13.5561	.5366	.1979
29	1.6671	.1270	.0993	69	14.0927	.5501	.1996
30	1.7941	.1340	.1025	70	14.6428	.5638	.2012
31	1.9281	.1411	.1056	71	15.2066	.5776	.2028
32	2.0692	.1486	.1088	72	15.7842	.5914	.2043
33	2.2178	.1561	.1118	73	16.3756	.6054	.2058
34	2.3739	.1639	.1149	74	16.9810	.6195	.2072
35	2.5378	.1719	.1180	75	17.6005	.6336	.2086
36	2.7097	.1802	.1210	76	18.2341	.6479	.2100
37	2.8899	.1885	.1239	77	18.8820	.6622	.2112
38	3.0784	.1972	.1270	78	19.5442	.6767	.2125
39	3.2756	.2060	.1299	79	20.2209	.6911	.2136
40	3.4816	.2150	.1327	80	20.9120	.7057	.2148

$e = 14^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	20.9120	.7057	.2148	120	60.9120	1.3089	.2148
81	21.6177	.7204	.2159	121	62.2209	1.3233	.2136
82	22.3381	.7351	.2168	122	63.5442	1.3378	.2125
83	23.0732	.7499	.2178	123	64.8820	1.3521	.2112
84	23.8231	.7647	.2187	124	66.2341	1.3664	.2100
85	24.5878	.7797	.2196	125	67.6005	1.3805	.2086
86	25.3675	.7946	.2203	126	68.9810	1.3946	.2072
87	26.1621	.8096	.2211	127	70.3756	1.4086	.2058
88	26.9717	.8246	.2218	128	71.7842	1.4224	.2043
89	27.7963	.8398	.2225	129	73.2066	1.4362	.2028
90	28.6361	.8549	.2230	130	74.6428	1.4499	.2012
91	29.4910	.8701	.2236	131	76.0927	1.4634	.1996
92	30.3611	.8853	.2240	132	77.5561	1.4769	.1979
93	31.2464	.9005	.2244	133	79.0330	1.4901	.1961
94	32.1469	.9158	.2248	134	80.5231	1.5034	.1944
95	33.0627	.9311	.2251	135	82.0265	1.5164	.1925
96	33.9938	.9464	.2254	136	83.5429	1.5294	.1907
97	34.9402	.9617	.2255	137	85.0723	1.5422	.1887
98	35.9019	.9770	.2257	138	86.6145	1.5548	.1867
99	36.8789	.9923	.2257	139	88.1693	1.5675	.1848
100	37.8712	1.0077	.2258	140	89.7368	1.5798	.1826
101	38.8789	1.0230	.2257	141	91.3166	1.5920	.1805
102	39.9019	1.0383	.2257	142	92.9086	1.6042	.1784
103	40.9402	1.0536	.2255	143	94.5128	1.6161	.1762
104	41.9938	1.0689	.2254	144	96.1289	1.6280	.1740
105	43.0627	1.0842	.2251	145	97.7569	1.6396	.1717
106	44.1469	1.0995	.2248	146	99.3965	1.6511	.1694
107	45.2464	1.1147	.2244	147	101.0476	1.6625	.1670
108	46.3611	1.1299	.2240	148	102.7101	1.6736	.1646
109	47.4910	1.1451	.2236	149	104.3837	1.6846	.1621
110	48.6361	1.1602	.2230	150	106.0683	1.6955	.1597
111	49.7963	1.1754	.2225	151	107.7638	1.7061	.1571
112	50.9717	1.1904	.2218	152	109.4699	1.7166	.1546
113	52.1621	1.2054	.2211	153	111.1865	1.7270	.1520
114	53.3675	1.2203	.2203	154	112.9135	1.7371	.1493
115	54.5878	1.2353	.2196	155	114.6506	1.7470	.1466
116	55.8231	1.2501	.2187	156	116.3976	1.7568	.1439
117	57.0732	1.2649	.2178	157	118.1544	1.7664	.1412
118	58.3381	1.2796	.2168	158	119.9208	1.7758	.1384
119	59.6177	1.2943	.2159	159	121.6966	1.7850	.1356
120	60.9120	1.3089	.2148	160	123.4816	1.7940	.1327

$e = 14^c$				$e = 15^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	123.4816	1.7940	.1327	0	.0000	.0277	.0000
161	125.2756	1.8028	.1299	1	.0277	.0279	.0038
162	127.0784	1.8115	.1270	2	.0556	.0284	.0076
163	128.8899	1.8198	.1239	3	.0840	.0291	.0113
164	130.7097	1.8281	.1210	4	.1131	.0300	.0151
165	132.5378	1.8361	.1180	5	.1431	.0313	.0190
166	134.3739	1.8439	.1149	6	.1744	.0327	.0227
167	136.2178	1.8514	.1118	7	.2071	.0344	.0265
168	138.0692	1.8589	.1088	8	.2415	.0363	.0302
169	139.9281	1.8660	.1056	9	.2778	.0384	.0340
170	141.7941	1.8730	.1025	10	.3162	.0409	.0378
171	143.6671	1.8797	.0993	11	.3571	.0434	.0414
172	145.5468	1.8863	.0962	12	.4005	.0464	.0452
173	147.4331	1.8926	.0929	13	.4469	.0494	.0488
174	149.3257	1.8986	.0897	14	.4963	.0527	.0526
175	151.2243	1.9046	.0865	15	.5490	.0564	.0563
176	153.1289	1.9101	.0831	16	.6054	.0601	.0599
177	155.0390	1.9156	.0798	17	.6655	.0641	.0636
178	156.9546	1.9208	.0765	18	.7296	.0684	.0673
179	158.8754	1.9257	.0731	19	.7980	.0729	.0709
180	160.8011	1.9305	.0698	20	.8709	.0776	.0745
181	162.7316	1.9350	.0664	21	.9485	.0826	.0781
182	164.6666	1.9393	.0630	22	1.0311	.0877	.0817
183	166.6059	1.9433	.0596	23	1.1188	.0932	.0853
184	168.5492	1.9471	.0562	24	1.2120	.0988	.0887
185	170.4963	1.9507	.0527	25	1.3108	.1046	.0922
186	172.4470	1.9541	.0493	26	1.4154	.1106	.0957
187	174.4011	1.9571	.0458	27	1.5260	.1170	.0992
188	176.3582	1.9601	.0423	28	1.6430	.1234	.1026
189	178.3183	1.9626	.0388	29	1.7664	.1302	.1061
190	180.2809	1.9651	.0353	30	1.8966	.1371	.1095
191	182.2460	1.9672	.0318	31	2.0337	.1443	.1128
192	184.2132	1.9691	.0283	32	2.1780	.1516	.1161
193	186.1823	1.9709	.0248	33	2.3296	.1592	.1195
194	188.1532	1.9722	.0212	34	2.4888	.1670	.1227
195	190.1254	1.9735	.0177	35	2.6558	.1749	.1259
196	192.0989	1.9744	.0142	36	2.8307	.1831	.1292
197	194.0733	1.9752	.0107	37	3.0138	.1916	.1324
198	196.0485	1.9756	.0071	38	3.2054	.2001	.1355
199	198.0241	1.9759	.0036	39	3.4055	.2088	.1386
200	200.0000	1.9759	.0000	40	3.6143	.2179	.1417

$e = 15^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	3.6143	.2179	.1417	80	21.1268	.7068	.2292
41	3.8322	.2270	.1447	81	21.8336	.7213	.2304
42	4.0592	.2364	.1478	82	22.5549	.7361	.2315
43	4.2956	.2459	.1507	83	23.2910	.7508	.2325
44	4.5415	.2557	.1537	84	24.0418	.7656	.2335
45	4.7972	.2656	.1566	85	24.8074	.7804	.2344
46	5.0628	.2757	.1594	86	25.5878	.7954	.2353
47	5.3385	.2860	.1623	87	26.3832	.8103	.2360
48	5.6245	.2964	.1650	88	27.1935	.8253	.2368
49	5.9209	.3071	.1678	89	28.0188	.8403	.2375
50	6.2280	.3178	.1704	90	28.8591	.8555	.2381
51	6.5458	.3289	.1732	91	29.7146	.8705	.2386
52	6.8747	.3399	.1757	92	30.5851	.8857	.2392
53	7.2146	.3513	.1783	93	31.4708	.9009	.2397
54	7.5659	.3627	.1808	94	32.3717	.9161	.2400
55	7.9286	.3743	.1833	95	33.2878	.9314	.2404
56	8.3029	.3861	.1858	96	34.2192	.9465	.2406
57	8.6890	.3980	.1882	97	35.1657	.9619	.2408
58	9.0870	.4101	.1905	98	36.1276	.9770	.2409
59	9.4971	.4223	.1928	99	37.1046	.9924	.2411
60	9.9194	.4347	.1951	100	38.0970	1.0076	.2411
61	10.3541	.4471	.1972	101	39.1046	1.0230	.2411
62	10.8012	.4598	.1994	102	40.1276	1.0381	.2409
63	11.2610	.4726	.2015	103	41.1657	1.0535	.2408
64	11.7336	.4854	.2035	104	42.2192	1.0686	.2406
65	12.2190	.4985	.2056	105	43.2878	1.0839	.2404
66	12.7175	.5116	.2075	106	44.3717	1.0991	.2400
67	13.2291	.5249	.2094	107	45.4708	1.1143	.2397
68	13.7540	.5383	.2112	108	46.5851	1.1295	.2392
69	14.2923	.5517	.2130	109	47.7146	1.1445	.2386
70	14.8440	.5654	.2148	110	48.8591	1.1597	.2381
71	15.4094	.5791	.2165	111	50.0188	1.1747	.2375
72	15.9885	.5929	.2181	112	51.1935	1.1897	.2368
73	16.5814	.6068	.2197	113	52.3832	1.2046	.2360
74	17.1882	.6209	.2213	114	53.5878	1.2196	.2353
75	17.8091	.6350	.2227	115	54.8074	1.2344	.2344
76	18.4441	.6491	.2241	116	56.0418	1.2492	.2335
77	19.0932	.6635	.2255	117	57.2910	1.2639	.2325
78	19.7567	.6778	.2268	118	58.5549	1.2787	.2315
79	20.4345	.6923	.2281	119	59.8336	1.2932	.2304
80	21.1268	.7068	.2292	120	61.1268	1.3077	.2292

$e = 15^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	61.1268	1.3077	.2292	160	123.6143	1.7912	.1417
121	62.4345	1.3222	.2281	161	125.4055	1.7999	.1386
122	63.7567	1.3365	.2268	162	127.2054	1.8084	.1355
123	65.0932	1.3509	.2255	163	129.0138	1.8169	.1324
124	66.4441	1.3650	.2241	164	130.8307	1.8251	.1292
125	67.8091	1.3791	.2227	165	132.6558	1.8330	.1259
126	69.1882	1.3932	.2213	166	134.4888	1.8408	.1227
127	70.5814	1.4071	.2197	167	136.3296	1.8484	.1195
128	71.9885	1.4209	.2181	168	138.1780	1.8557	.1161
129	73.4094	1.4346	.2165	169	140.0337	1.8629	.1128
130	74.8440	1.4483	.2148	170	141.8966	1.8698	.1095
131	76.2923	1.4617	.2130	171	143.7664	1.8766	.1061
132	77.7540	1.4751	.2112	172	145.6430	1.8830	.1026
133	79.2291	1.4884	.2094	173	147.5260	1.8894	.0992
134	80.7175	1.5015	.2075	174	149.4154	1.8954	.0957
135	82.2190	1.5146	.2056	175	151.3108	1.9012	.0922
136	83.7336	1.5274	.2035	176	153.2120	1.9068	.0887
137	85.2610	1.5402	.2015	177	155.1188	1.9123	.0853
138	86.8012	1.5529	.1994	178	157.0311	1.9174	.0817
139	88.3541	1.5653	.1972	179	158.9485	1.9224	.0781
140	89.9194	1.5777	.1951	180	160.8709	1.9271	.0745
141	91.4971	1.5899	.1928	181	162.7980	1.9316	.0709
142	93.0870	1.6020	.1905	182	164.7296	1.9359	.0673
143	94.6890	1.6139	.1882	183	166.6655	1.9399	.0636
144	96.3029	1.6257	.1858	184	168.6054	1.9436	.0599
145	97.9286	1.6373	.1833	185	170.5490	1.9473	.0563
146	99.5659	1.6487	.1808	186	172.4963	1.9506	.0526
147	101.2146	1.6601	.1783	187	174.4469	1.9536	.0488
148	102.8747	1.6711	.1757	188	176.4005	1.9566	.0452
149	104.5458	1.6822	.1732	189	178.3571	1.9591	.0414
150	106.2280	1.6929	.1704	190	180.3162	1.9616	.0378
151	107.9209	1.7036	.1678	191	182.2778	1.9637	.0340
152	109.6245	1.7140	.1650	192	184.2415	1.9656	.0302
153	111.3385	1.7243	.1623	193	186.2071	1.9673	.0265
154	113.0628	1.7344	.1594	194	188.1744	1.9687	.0227
155	114.7972	1.7443	.1566	195	190.1431	1.9700	.0190
156	116.5415	1.7541	.1537	196	192.1131	1.9709	.0151
157	118.2956	1.7636	.1507	197	194.0840	1.9716	.0113
158	120.0592	1.7730	.1478	198	196.0556	1.9721	.0076
159	121.8322	1.7821	.1447	199	198.0277	1.9723	.0038
160	123.6143	1.7912	.1417	200	200.0000	1.9723	.0000

$e = 16^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0315	.0000	40	3.7560	.2209	.1507
1	.0315	.0317	.0040	41	3.9769	.2301	.1539
2	.0632	.0321	.0080	42	4.2070	.2393	.1571
3	.0953	.0329	.0121	43	4.4463	.2489	.1603
4	.1282	.0339	.0161	44	4.6952	.2586	.1634
5	.1621	.0350	.0201	45	4.9538	.2684	.1664
6	.1971	.0365	.0241	46	5.2222	.2786	.1695
7	.2336	.0381	.0281	47	5.5008	.2887	.1724
8	.2717	.0401	.0321	48	5.7895	.2992	.1755
9	.3118	.0422	.0361	49	6.0887	.3097	.1783
10	.3540	.0445	.0400	50	6.3984	.3206	.1813
11	.3985	.0472	.0441	51	6.7190	.3314	.1840
12	.4457	.0500	.0480	52	7.0504	.3425	.1868
13	.4957	.0532	.0520	53	7.3929	.3538	.1896
14	.5489	.0564	.0559	54	7.7467	.3652	.1923
15	.6053	.0600	.0598	55	8.1119	.3768	.1949
16	.6653	.0638	.0637	56	8.4887	.3885	.1974
17	.7291	.0678	.0676	57	8.8772	.4003	.2000
18	.7969	.0720	.0715	58	9.2775	.4124	.2025
19	.8689	.0765	.0754	59	9.6899	.4246	.2050
20	.9454	.0812	.0792	60	10.1145	.4368	.2073
21	1.0266	.0862	.0830	61	10.5513	.4493	.2097
22	1.1128	.0913	.0868	62	11.0006	.4619	.2120
23	1.2041	.0966	.0906	63	11.4625	.4746	.2142
24	1.3007	.1023	.0944	64	11.9371	.4875	.2164
25	1.4030	.1081	.0981	65	12.4246	.5004	.2185
26	1.5111	.1141	.1018	66	12.9250	.5135	.2206
27	1.6252	.1204	.1055	67	13.4385	.5267	.2226
28	1.7456	.1269	.1092	68	13.9652	.5401	.2246
29	1.8725	.1336	.1128	69	14.5053	.5535	.2265
30	2.0061	.1404	.1163	70	15.0588	.5671	.2284
31	2.1465	.1476	.1200	71	15.6259	.5807	.2301
32	2.2941	.1550	.1235	72	16.2066	.5945	.2319
33	2.4491	.1624	.1269	73	16.8011	.6084	.2336
34	2.6115	.1702	.1305	74	17.4095	.6223	.2352
35	2.7817	.1782	.1339	75	18.0318	.6364	.2368
36	2.9599	.1863	.1373	76	18.6682	.6505	.2383
37	3.1462	.1947	.1407	77	19.3187	.6648	.2398
38	3.3409	.2032	.1440	78	19.9835	.6791	.2411
39	3.5441	.2119	.1473	79	20.6626	.6934	.2424
40	3.7560	.2209	.1507	80	21.3560	.7080	.2438

$e = 16^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	21.3560	.7080	.2438	120	61.3560	1.3066	.2438
81	22.0640	.7224	.2449	121	62.6626	1.3209	.2424
82	22.7864	.7371	.2462	122	63.9835	1.3352	.2411
83	23.5235	.7518	.2472	123	65.3187	1.3495	.2398
84	24.2753	.7665	.2482	124	66.6682	1.3636	.2383
85	25.0418	.7813	.2492	125	68.0318	1.3777	.2368
86	25.8231	.7961	.2501	126	69.4095	1.3916	.2352
87	26.6192	.8111	.2510	127	70.8011	1.4055	.2336
88	27.4303	.8260	.2517	128	72.2066	1.4193	.2319
89	28.2563	.8409	.2524	129	73.6259	1.4329	.2301
90	29.0972	.8560	.2532	130	75.0588	1.4465	.2284
91	29.9532	.8711	.2538	131	76.5053	1.4599	.2265
92	30.8243	.8862	.2543	132	77.9652	1.4733	.2246
93	31.7105	.9012	.2547	133	79.4385	1.4865	.2226
94	32.6117	.9165	.2552	134	80.9250	1.4996	.2206
95	33.5282	.9316	.2555	135	82.4246	1.5125	.2185
96	34.4598	.9467	.2557	136	83.9371	1.5254	.2164
97	35.4065	.9620	.2560	137	85.4625	1.5381	.2142
98	36.3685	.9772	.2562	138	87.0006	1.5507	.2120
99	37.3457	.9924	.2562	139	88.5513	1.5632	.2097
100	38.3381	1.0076	.2563	140	90.1145	1.5754	.2073
101	39.3457	1.0228	.2562	141	91.6899	1.5876	.2050
102	40.3685	1.0380	.2562	142	93.2775	1.5997	.2025
103	41.4065	1.0533	.2560	143	94.8772	1.6115	.2000
104	42.4598	1.0684	.2557	144	96.4887	1.6232	.1974
105	43.5282	1.0835	.2555	145	98.1119	1.6348	.1949
106	44.6117	1.0988	.2552	146	99.7467	1.6462	.1923
107	45.7105	1.1138	.2547	147	101.3929	1.6575	.1896
108	46.8243	1.1289	.2543	148	103.0504	1.6686	.1868
109	47.9532	1.1440	.2538	149	104.7190	1.6794	.1840
110	49.0972	1.1591	.2532	150	106.3984	1.6903	.1813
111	50.2563	1.1740	.2524	151	108.0887	1.7008	.1783
112	51.4303	1.1889	.2517	152	109.7895	1.7113	.1755
113	52.6192	1.2039	.2510	153	111.5008	1.7214	.1724
114	53.8231	1.2187	.2501	154	113.2222	1.7316	.1695
115	55.0418	1.2335	.2492	155	114.9538	1.7414	.1664
116	56.2753	1.2482	.2482	156	116.6952	1.7511	.1634
117	57.5235	1.2629	.2472	157	118.4463	1.7607	.1603
118	58.7864	1.2776	.2462	158	120.2070	1.7699	.1571
119	60.0640	1.2920	.2449	159	121.9769	1.7791	.1539
120	61.3560	1.3066	.2438	160	123.7560	1.7881	.1507

$e = 16^c$				$e = 17^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	123.7560	1.7881	.1507	0	.0000	.0355	.0000
161	125.5441	1.7968	.1473	1	.0355	.0357	.0042
162	127.3409	1.8053	.1440	2	.0712	.0362	.0085
163	129.1462	1.8137	.1407	3	.1074	.0369	.0128
164	130.9599	1.8218	.1373	4	.1443	.0379	.0171
165	132.7817	1.8298	.1339	5	.1822	.0390	.0213
166	134.6115	1.8376	.1305	6	.2212	.0405	.0256
167	136.4491	1.8450	.1269	7	.2617	.0421	.0298
168	138.2941	1.8524	.1235	8	.3038	.0441	.0341
169	140.1465	1.8596	.1200	9	.3479	.0461	.0382
170	142.0061	1.8664	.1163	10	.3940	.0486	.0425
171	143.8725	1.8731	.1128	11	.4426	.0511	.0467
172	145.7456	1.8796	.1092	12	.4937	.0540	.0509
173	147.6252	1.8859	.1055	13	.5477	.0571	.0551
174	149.5111	1.8919	.1018	14	.6048	.0603	.0592
175	151.4030	1.8977	.0981	15	.6651	.0639	.0634
176	153.3007	1.9034	.0944	16	.7290	.0677	.0675
177	155.2041	1.9087	.0906	17	.7967	.0717	.0716
178	157.1128	1.9138	.0868	18	.8684	.0759	.0757
179	159.0266	1.9188	.0830	19	.9443	.0803	.0798
180	160.9454	1.9235	.0792	20	1.0246	.0850	.0839
181	162.8689	1.9280	.0754	21	1.1096	.0900	.0880
182	164.7969	1.9322	.0715	22	1.1996	.0951	.0919
183	166.7291	1.9362	.0676	23	1.2947	.1004	.0959
184	168.6653	1.9400	.0637	24	1.3951	.1060	.0999
185	170.6053	1.9436	.0598	25	1.5011	.1118	.1039
186	172.5489	1.9468	.0559	26	1.6129	.1178	.1078
187	174.4957	1.9500	.0520	27	1.7307	.1241	.1117
188	176.4457	1.9528	.0480	28	1.8548	.1305	.1155
189	178.3985	1.9555	.0441	29	1.9853	.1371	.1194
190	180.3540	1.9578	.0400	30	2.1224	.1441	.1233
191	182.3118	1.9599	.0361	31	2.2665	.1511	.1270
192	184.2717	1.9619	.0321	32	2.4176	.1584	.1308
193	186.2336	1.9635	.0281	33	2.5760	.1660	.1345
194	188.1971	1.9650	.0241	34	2.7420	.1736	.1382
195	190.1621	1.9661	.0201	35	2.9156	.1816	.1419
196	192.1282	1.9671	.0161	36	3.0972	.1897	.1455
197	194.0953	1.9679	.0121	37	3.2869	.1980	.1490
198	196.0632	1.9683	.0080	38	3.4849	.2065	.1526
199	198.0315	1.9685	.0040	39	3.6914	.2153	.1561
200	200.0000	1.9685	.0000	40	3.9067	.2241	.1595



$e = 17^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	3.9067	.2241	.1595	80	21.5998	.7091	.2581
41	4.1308	.2333	.1630	81	22.3089	.7237	.2595
42	4.3641	.2425	.1663	82	23.0326	.7381	.2606
43	4.6066	.2520	.1697	83	23.7707	.7528	.2619
44	4.8586	.2616	.1730	84	24.5235	.7675	.2629
45	5.1202	.2715	.1763	85	25.2910	.7822	.2639
46	5.3917	.2815	.1795	86	26.0732	.7970	.2649
47	5.6732	.2918	.1827	87	26.8702	.8118	.2658
48	5.9650	.3020	.1858	88	27.6820	.8267	.2667
49	6.2670	.3127	.1889	89	28.5087	.8417	.2674
50	6.5797	.3233	.1919	90	29.3504	.8566	.2681
51	6.9030	.3342	.1949	91	30.2070	.8716	.2687
52	7.2372	.3453	.1979	92	31.0786	.8866	.2693
53	7.5825	.3565	.2007	93	31.9652	.9017	.2698
54	7.9390	.3678	.2036	94	32.8669	.9168	.2702
55	8.3068	.3793	.2064	95	33.7837	.9318	.2706
56	8.6861	.3911	.2092	96	34.7155	.9470	.2709
57	9.0772	.4028	.2118	97	35.6625	.9622	.2712
58	9.4800	.4149	.2145	98	36.6247	.9772	.2713
59	9.8949	.4269	.2170	99	37.6019	.9925	.2714
60	10.3218	.4392	.2196	100	38.5944	1.0075	.2714
61	10.7610	.4516	.2221	101	39.6019	1.0228	.2714
62	11.2126	.4641	.2245	102	40.6247	1.0378	.2713
63	11.6767	.4768	.2269	103	41.6625	1.0530	.2712
64	12.1535	.4896	.2292	104	42.7155	1.0682	.2709
65	12.6431	.5025	.2314	105	43.7837	1.0832	.2706
66	13.1456	.5155	.2336	106	44.8669	1.0983	.2702
67	13.6611	.5287	.2358	107	45.9652	1.1134	.2698
68	14.1898	.5420	.2379	108	47.0786	1.1284	.2693
69	14.7318	.5554	.2399	109	48.2070	1.1434	.2687
70	15.2872	.5688	.2418	110	49.3504	1.1583	.2681
71	15.8560	.5825	.2438	111	50.5087	1.1733	.2674
72	16.4385	.5962	.2456	112	51.6820	1.1882	.2667
73	17.0347	.6100	.2474	113	52.8702	1.2030	.2658
74	17.6447	.6239	.2491	114	54.0732	1.2178	.2649
75	18.2686	.6379	.2508	115	55.2910	1.2325	.2639
76	18.9065	.6520	.2524	116	56.5235	1.2472	.2629
77	19.5585	.6661	.2539	117	57.7707	1.2619	.2619
78	20.2246	.6804	.2554	118	59.0326	1.2763	.2606
79	20.9050	.6948	.2568	119	60.3089	1.2909	.2595
80	21.5998	.7091	.2581	120	61.5998	1.3052	.2581

$e = 17^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	61.5998	1.3052	.2581	160	123.9067	1.7847	.1595
121	62.9050	1.3196	.2568	161	125.6914	1.7935	.1561
122	64.2246	1.3339	.2554	162	127.4849	1.8020	.1526
123	65.5585	1.3480	.2539	163	129.2869	1.8103	.1490
124	66.9065	1.3621	.2524	164	131.0972	1.8184	.1455
125	68.2686	1.3761	.2508	165	132.9156	1.8264	.1419
126	69.6447	1.3900	.2491	166	134.7420	1.8340	.1382
127	71.0347	1.4038	.2474	167	136.5760	1.8416	.1345
128	72.4385	1.4175	.2456	168	138.4176	1.8489	.1308
129	73.8560	1.4312	.2438	169	140.2665	1.8559	.1270
130	75.2872	1.4446	.2418	170	142.1224	1.8629	.1233
131	76.7318	1.4580	.2399	171	143.9853	1.8695	.1194
132	78.1898	1.4713	.2379	172	145.8548	1.8759	.1155
133	79.6611	1.4845	.2358	173	147.7307	1.8822	.1117
134	81.1456	1.4975	.2336	174	149.6129	1.8882	.1078
135	82.6431	1.5104	.2314	175	151.5011	1.8940	.1039
136	84.1535	1.5232	.2292	176	153.3951	1.8996	.0999
137	85.6767	1.5359	.2269	177	155.2947	1.9049	.0959
138	87.2126	1.5484	.2245	178	157.1996	1.9100	.0919
139	88.7610	1.5608	.2221	179	159.1096	1.9150	.0880
140	90.3218	1.5731	.2196	180	161.0246	1.9197	.0839
141	91.8949	1.5851	.2170	181	162.9443	1.9241	.0798
142	93.4800	1.5972	.2145	182	164.8684	1.9283	.0757
143	95.0772	1.6089	.2118	183	166.7967	1.9323	.0716
144	96.6861	1.6207	.2092	184	168.7290	1.9361	.0675
145	98.3068	1.6322	.2064	185	170.6651	1.9397	.0634
146	99.9390	1.6435	.2036	186	172.6048	1.9429	.0592
147	101.5825	1.6547	.2007	187	174.5477	1.9460	.0551
148	103.2372	1.6658	.1979	188	176.4937	1.9489	.0509
149	104.9030	1.6767	.1949	189	178.4426	1.9514	.0467
150	106.5797	1.6873	.1919	190	180.3940	1.9539	.0425
151	108.2670	1.6980	.1889	191	182.3479	1.9559	.0382
152	109.9650	1.7082	.1858	192	184.3038	1.9579	.0341
153	111.6732	1.7185	.1827	193	186.2617	1.9595	.0298
154	113.3917	1.7285	.1795	194	188.2212	1.9610	.0256
155	115.1202	1.7384	.1763	195	190.1822	1.9621	.0213
156	116.8586	1.7480	.1730	196	192.1443	1.9631	.0171
157	118.6066	1.7575	.1697	197	194.1074	1.9638	.0128
158	120.3641	1.7667	.1663	198	196.0712	1.9643	.0085
159	122.1308	1.7759	.1630	199	198.0355	1.9645	.0042
160	123.9067	1.7847	.1595	200	200.0000	1.9645	.0000

$e = 18^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0397	.0000	40	4.0662	.2276	.1684
1	.0397	.0400	.0045	41	4.2938	.2366	.1720
2	.0797	.0405	.0090	42	4.5304	.2459	.1756
3	.1202	.0412	.0135	43	4.7763	.2553	.1791
4	.1614	.0421	.0179	44	5.0316	.2649	.1826
5	.2035	.0433	.0224	45	5.2965	.2747	.1861
6	.2468	.0447	.0269	46	5.5712	.2847	.1895
7	.2915	.0464	.0314	47	5.8559	.2949	.1929
8	.3379	.0482	.0359	48	6.1508	.3051	.1961
9	.3861	.0504	.0404	49	6.4559	.3157	.1994
10	.4365	.0528	.0448	50	6.7716	.3263	.2026
11	.4893	.0553	.0492	51	7.0979	.3372	.2058
12	.5446	.0582	.0537	52	7.4351	.3481	.2089
13	.6028	.0612	.0581	53	7.7832	.3594	.2120
14	.6640	.0645	.0625	54	8.1426	.3706	.2149
15	.7285	.0680	.0669	55	8.5132	.3821	.2179
16	.7965	.0718	.0713	56	8.8953	.3937	.2208
17	.8683	.0758	.0756	57	9.2890	.4055	.2236
18	.9441	.0800	.0799	58	9.6945	.4174	.2264
19	1.0241	.0844	.0842	59	10.1119	.4295	.2291
20	1.1085	.0891	.0885	60	10.5414	.4417	.2318
21	1.1976	.0939	.0928	61	10.9831	.4540	.2344
22	1.2915	.0991	.0971	62	11.4371	.4665	.2370
23	1.3906	.1044	.1013	63	11.9036	.4791	.2395
24	1.4950	.1100	.1055	64	12.3827	.4918	.2419
25	1.6050	.1157	.1096	65	12.8745	.5047	.2443
26	1.7207	.1217	.1138	66	13.3792	.5177	.2467
27	1.8424	.1279	.1179	67	13.8969	.5308	.2489
28	1.9703	.1344	.1220	68	14.4277	.5440	.2511
29	2.1047	.1410	.1260	69	14.9717	.5573	.2532
30	2.2457	.1478	.1300	70	15.5290	.5708	.2553
31	2.3935	.1549	.1341	71	16.0998	.5843	.2573
32	2.5484	.1621	.1380	72	16.6841	.5980	.2593
33	2.7105	.1697	.1420	73	17.2821	.6117	.2611
34	2.8802	.1773	.1458	74	17.8938	.6256	.2630
35	3.0575	.1852	.1497	75	18.5194	.6395	.2647
36	3.2427	.1932	.1535	76	19.1589	.6535	.2664
37	3.4359	.2016	.1573	77	19.8124	.6676	.2680
38	3.6375	.2100	.1610	78	20.4800	.6818	.2696
39	3.8475	.2187	.1648	79	21.1618	.6961	.2711
40	4.0662	.2276	.1684	80	21.8579	.7105	.2725

$e = 18^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	21.8579	.7105	.2725	120	61.8579	1.3039	.2725
81	22.5684	.7248	.2738	121	63.1618	1.3182	.2711
82	23.2932	.7394	.2752	122	64.4800	1.3324	.2696
83	24.0326	.7538	.2763	123	65.8124	1.3465	.2680
84	24.7864	.7685	.2776	124	67.1589	1.3605	.2664
85	25.5549	.7832	.2787	125	68.5194	1.3744	.2647
86	26.3381	.7979	.2796	126	69.8938	1.3883	.2630
87	27.1360	.8127	.2806	127	71.2821	1.4020	.2611
88	27.9487	.8274	.2814	128	72.6841	1.4157	.2593
89	28.7761	.8424	.2823	129	74.0998	1.4292	.2573
90	29.6185	.8572	.2830	130	75.5290	1.4427	.2553
91	30.4757	.8722	.2837	131	76.9717	1.4560	.2532
92	31.3479	.8871	.2842	132	78.4277	1.4692	.2511
93	32.2350	.9021	.2848	133	79.8969	1.4823	.2489
94	33.1371	.9172	.2853	134	81.3792	1.4953	.2467
95	34.0543	.9321	.2856	135	82.8745	1.5082	.2443
96	34.9864	.9473	.2860	136	84.3827	1.5209	.2419
97	35.9337	.9623	.2862	137	85.9036	1.5335	.2395
98	36.8960	.9773	.2864	138	87.4371	1.5460	.2370
99	37.8733	.9925	.2865	139	88.9831	1.5583	.2344
100	38.8658	1.0075	.2865	140	90.5414	1.5705	.2318
101	39.8733	1.0227	.2865	141	92.1119	1.5826	.2291
102	40.8960	1.0377	.2864	142	93.6945	1.5945	.2264
103	41.9337	1.0527	.2862	143	95.2890	1.6063	.2236
104	42.9864	1.0679	.2860	144	96.8953	1.6179	.2208
105	44.0543	1.0828	.2856	145	98.5132	1.6294	.2179
106	45.1371	1.0979	.2853	146	100.1426	1.6406	.2149
107	46.2350	1.1129	.2848	147	101.7832	1.6519	.2120
108	47.3479	1.1278	.2842	148	103.4351	1.6628	.2089
109	48.4757	1.1428	.2837	149	105.0979	1.6737	.2058
110	49.6185	1.1576	.2830	150	106.7716	1.6843	.2026
111	50.7761	1.1726	.2823	151	108.4559	1.6949	.1994
112	51.9487	1.1873	.2814	152	110.1508	1.7051	.1961
113	53.1360	1.2021	.2806	153	111.8559	1.7153	.1929
114	54.3381	1.2168	.2796	154	113.5712	1.7253	.1895
115	55.5549	1.2315	.2787	155	115.2965	1.7351	.1861
116	56.7864	1.2462	.2776	156	117.0316	1.7447	.1826
117	58.0326	1.2606	.2763	157	118.7763	1.7541	.1791
118	59.2932	1.2752	.2752	158	120.5304	1.7634	.1756
119	60.5684	1.2895	.2738	159	122.2938	1.7724	.1720
120	61.8579	1.3039	.2725	160	124.0662	1.7813	.1684

$e = 18^c$				$e = 19^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	124.0662	1.7813	.1684	0	.0000	.0442	.0000
161	125.8475	1.7900	.1648	1	.0442	.0445	.0048
162	127.6375	1.7984	.1610	2	.0887	.0450	.0095
163	129.4359	1.8068	.1573	3	.1337	.0456	.0142
164	131.2427	1.8148	.1535	4	.1793	.0466	.0190
165	133.0575	1.8227	.1497	5	.2259	.0478	.0237
166	134.8802	1.8303	.1458	6	.2737	.0492	.0284
167	136.7105	1.8379	.1420	7	.3229	.0509	.0331
168	138.5484	1.8451	.1380	8	.3738	.0527	.0378
169	140.3935	1.8522	.1341	9	.4265	.0548	.0425
170	142.2457	1.8590	.1300	10	.4813	.0572	.0472
171	144.1047	1.8656	.1260	11	.5385	.0598	.0519
172	145.9703	1.8721	.1220	12	.5983	.0626	.0565
173	147.8424	1.8783	.1179	13	.6609	.0656	.0611
174	149.7207	1.8843	.1138	14	.7265	.0689	.0658
175	151.6050	1.8900	.1096	15	.7954	.0724	.0704
176	153.4950	1.8956	.1055	16	.8678	.0761	.0750
177	155.3906	1.9009	.1013	17	.9439	.0801	.0796
178	157.2915	1.9061	.0971	18	1.0240	.0843	.0842
179	159.1976	1.9109	.0928	19	1.1083	.0887	.0887
180	161.1085	1.9156	.0885	20	1.1970	.0934	.0932
181	163.0241	1.9200	.0842	21	1.2904	.0982	.0977
182	164.9441	1.9242	.0799	22	1.3886	.1033	.1021
183	166.8683	1.9282	.0756	23	1.4919	.1086	.1066
184	168.7965	1.9320	.0713	24	1.6005	.1141	.1110
185	170.7285	1.9355	.0669	25	1.7146	.1199	.1154
186	172.6640	1.9388	.0625	26	1.8345	.1258	.1197
187	174.6028	1.9418	.0581	27	1.9603	.1320	.1241
188	176.5446	1.9447	.0537	28	2.0923	.1384	.1284
189	178.4893	1.9472	.0492	29	2.2307	.1450	.1327
190	180.4365	1.9496	.0448	30	2.3757	.1519	.1369
191	182.3861	1.9518	.0404	31	2.5276	.1588	.1411
192	184.3379	1.9536	.0359	32	2.6864	.1661	.1453
193	186.2915	1.9553	.0314	33	2.8525	.1735	.1494
194	188.2468	1.9567	.0269	34	3.0260	.1812	.1535
195	190.2035	1.9579	.0224	35	3.2072	.1890	.1575
196	192.1614	1.9588	.0179	36	3.3962	.1970	.1616
197	194.1202	1.9595	.0135	37	3.5932	.2053	.1656
198	196.0797	1.9600	.0090	38	3.7985	.2138	.1695
199	198.0397	1.9603	.0045	39	4.0123	.2223	.1734
200	200.0000	1.9603	.0000	40	4.2346	.2312	.1773

$e = 19^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	4.2346	.2312	.1773	80	22.1304	.7118	.2868
41	4.4658	.2402	.1811	81	22.8422	.7262	.2882
42	4.7060	.2494	.1848	82	23.5684	.7405	.2895
43	4.9554	.2588	.1886	83	24.3089	.7551	.2909
44	5.2142	.2684	.1922	84	25.0640	.7696	.2920
45	5.4826	.2781	.1958	85	25.8336	.7841	.2932
46	5.7607	.2881	.1994	86	26.6177	.7989	.2943
47	6.0488	.2981	.2029	87	27.4166	.8135	.2952
48	6.3469	.3084	.2064	88	28.2301	.8283	.2962
49	6.6553	.3189	.2099	89	29.0584	.8431	.2970
50	6.9742	.3295	.2132	90	29.9015	.8579	.2978
51	7.3037	.3403	.2165	91	30.7594	.8727	.2985
52	7.6440	.3512	.2198	92	31.6321	.8877	.2992
53	7.9952	.3623	.2230	93	32.5198	.9026	.2997
54	8.3575	.3736	.2262	94	33.4224	.9175	.3002
55	8.7311	.3850	.2293	95	34.3399	.9325	.3006
56	9.1161	.3965	.2323	96	35.2724	.9475	.3009
57	9.5126	.4083	.2354	97	36.2199	.9625	.3012
58	9.9209	.4201	.2383	98	37.1824	.9774	.3013
59	10.3410	.4322	.2412	99	38.1598	.9925	.3015
60	10.7732	.4443	.2439	100	39.1523	1.0075	.3016
61	11.2175	.4566	.2467	101	40.1598	1.0226	.3015
62	11.6741	.4690	.2494	102	41.1824	1.0375	.3013
63	12.1431	.4815	.2520	103	42.2199	1.0525	.3012
64	12.6246	.4942	.2546	104	43.2724	1.0675	.3009
65	13.1188	.5071	.2571	105	44.3399	1.0825	.3006
66	13.6259	.5199	.2595	106	45.4224	1.0974	.3002
67	14.1458	.5330	.2619	107	46.5198	1.1123	.2997
68	14.6788	.5461	.2642	108	47.6321	1.1273	.2992
69	15.2249	.5594	.2665	109	48.7594	1.1421	.2985
70	15.7843	.5728	.2687	110	49.9015	1.1569	.2978
71	16.3571	.5863	.2708	111	51.0584	1.1717	.2970
72	16.9434	.5998	.2728	112	52.2301	1.1865	.2962
73	17.5432	.6136	.2749	113	53.4166	1.2011	.2952
74	18.1568	.6273	.2767	114	54.6177	1.2159	.2943
75	18.7841	.6412	.2786	115	55.8336	1.2304	.2932
76	19.4253	.6551	.2803	116	57.0640	1.2449	.2920
77	20.0804	.6692	.2821	117	58.3089	1.2595	.2909
78	20.7496	.6833	.2837	118	59.5684	1.2738	.2895
79	21.4329	.6975	.2853	119	60.8422	1.2882	.2882
80	22.1304	.7118	.2868	120	62.1304	1.3025	.2868

$e = 19^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	62.1304	1.3025	.2868	160	124.2346	1.7777	.1773
121	63.4329	1.3167	.2853	161	126.0123	1.7862	.1734
122	64.7496	1.3308	.2837	162	127.7985	1.7947	.1695
123	66.0804	1.3449	.2821	163	129.5932	1.8030	.1656
124	67.4253	1.3588	.2803	164	131.3962	1.8110	.1616
125	68.7841	1.3727	.2786	165	133.2072	1.8188	.1575
126	70.1568	1.3864	.2767	166	135.0260	1.8265	.1535
127	71.5432	1.4002	.2749	167	136.8525	1.8339	.1494
128	72.9434	1.4137	.2728	168	138.6864	1.8412	.1453
129	74.3571	1.4272	.2708	169	140.5276	1.8481	.1411
130	75.7843	1.4406	.2687	170	142.3757	1.8550	.1369
131	77.2249	1.4539	.2665	171	144.2307	1.8616	.1327
132	78.6788	1.4670	.2642	172	146.0923	1.8680	.1284
133	80.1458	1.4801	.2619	173	147.9603	1.8742	.1241
134	81.6259	1.4929	.2595	174	149.8345	1.8801	.1197
135	83.1188	1.5058	.2571	175	151.7146	1.8859	.1154
136	84.6246	1.5185	.2546	176	153.6005	1.8914	.1110
137	86.1431	1.5310	.2520	177	155.4919	1.8967	.1066
138	87.6741	1.5434	.2494	178	157.3886	1.9018	.1021
139	89.2175	1.5557	.2467	179	159.2904	1.9066	.0977
140	90.7732	1.5678	.2439	180	161.1970	1.9113	.0932
141	92.3410	1.5799	.2412	181	163.1083	1.9157	.0887
142	93.9209	1.5917	.2383	182	165.0240	1.9199	.0842
143	95.5126	1.6035	.2354	183	166.9439	1.9239	.0796
144	97.1161	1.6150	.2323	184	168.8678	1.9276	.0750
145	98.7311	1.6264	.2293	185	170.7954	1.9311	.0704
146	100.3575	1.6377	.2262	186	172.7265	1.9344	.0658
147	101.9952	1.6488	.2230	187	174.6609	1.9374	.0611
148	103.6440	1.6597	.2198	188	176.5983	1.9402	.0565
149	105.3037	1.6705	.2165	189	178.5385	1.9428	.0519
150	106.9742	1.6811	.2132	190	180.4813	1.9452	.0472
151	108.6553	1.6916	.2099	191	182.4265	1.9473	.0425
152	110.3469	1.7019	.2064	192	184.3738	1.9491	.0378
153	112.0488	1.7119	.2029	193	186.3229	1.9508	.0331
154	113.7607	1.7219	.1994	194	188.2737	1.9522	.0284
155	115.4826	1.7316	.1958	195	190.2259	1.9534	.0237
156	117.2142	1.7412	.1922	196	192.1793	1.9544	.0190
157	118.9554	1.7506	.1886	197	194.1337	1.9550	.0142
158	120.7060	1.7598	.1848	198	196.0887	1.9555	.0095
159	122.4658	1.7688	.1811	199	198.0442	1.9558	.0048
160	124.2346	1.7777	.1773	200	200.0000	1.9558	.0000

$e = 20^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0490	.0000	40	4.4119	.2350	.1860
1	.0490	.0492	.0050	41	4.6469	.2439	.1900
2	.0982	.0497	.0099	42	4.8908	.2532	.1940
3	.1479	.0504	.0149	43	5.1440	.2624	.1978
4	.1983	.0513	.0198	44	5.4064	.2720	.2018
5	.2496	.0525	.0248	45	5.6784	.2817	.2056
6	.3021	.0539	.0298	46	5.9601	.2916	.2093
7	.3560	.0556	.0347	47	6.2517	.3016	.2130
8	.4116	.0574	.0396	48	6.5533	.3119	.2167
9	.4690	.0595	.0446	49	6.8652	.3222	.2202
10	.5285	.0619	.0495	50	7.1874	.3328	.2238
11	.5904	.0644	.0544	51	7.5202	.3436	.2273
12	.6548	.0672	.0593	52	7.8638	.3544	.2307
13	.7220	.0703	.0642	53	8.2182	.3655	.2341
14	.7923	.0735	.0690	54	8.5837	.3767	.2374
15	.8658	.0770	.0739	55	8.9604	.3880	.2406
16	.9428	.0807	.0787	56	9.3484	.3996	.2438
17	1.0235	.0847	.0835	57	9.7480	.4112	.2469
18	1.1082	.0888	.0883	58	10.1592	.4230	.2500
19	1.1970	.0932	.0930	59	10.5822	.4349	.2531
20	1.2902	.0979	.0978	60	11.0171	.4471	.2561
21	1.3881	.1026	.1025	61	11.4642	.4593	.2589
22	1.4907	.1078	.1072	62	11.9235	.4716	.2617
23	1.5985	.1130	.1118	63	12.3951	.4841	.2645
24	1.7115	.1185	.1165	64	12.8792	.4967	.2672
25	1.8300	.1242	.1211	65	13.3759	.5095	.2699
26	1.9542	.1302	.1257	66	13.8854	.5223	.2724
27	2.0844	.1363	.1302	67	14.4077	.5353	.2749
28	2.2207	.1427	.1348	68	14.9430	.5484	.2773
29	2.3634	.1492	.1392	69	15.4914	.5616	.2797
30	2.5126	.1561	.1437	70	16.0530	.5749	.2820
31	2.6687	.1630	.1480	71	16.6279	.5883	.2842
32	2.8317	.1702	.1524	72	17.2162	.6019	.2864
33	3.0019	.1776	.1568	73	17.8181	.6154	.2884
34	3.1795	.1852	.1611	74	18.4335	.6292	.2904
35	3.3647	.1931	.1654	75	19.0627	.6429	.2923
36	3.5578	.2010	.1695	76	19.7056	.6569	.2943
37	3.7588	.2092	.1737	77	20.3625	.6708	.2960
38	3.9680	.2177	.1779	78	21.0333	.6849	.2978
39	4.1857	.2262	.1819	79	21.7182	.6990	.2994
40	4.4119	.2350	.1860	80	22.4172	.7132	.3010



$e = 20^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	22.4172	.7132	.3010	120	62.4172	1.3010	.3010
81	23.1304	.7275	.3025	121	63.7182	1.3151	.2994
82	23.8579	.7419	.3039	122	65.0333	1.3292	.2978
83	24.5998	.7562	.3052	123	66.3625	1.3431	.2960
84	25.3560	.7708	.3066	124	67.7056	1.3571	.2943
85	26.1268	.7852	.3077	125	69.0627	1.3708	.2923
86	26.9120	.7998	.3089	126	70.4335	1.3846	.2904
87	27.7118	.8145	.3099	127	71.8181	1.3981	.2884
88	28.5263	.8291	.3109	128	73.2162	1.4117	.2864
89	29.3554	.8439	.3118	129	74.6279	1.4251	.2842
90	30.1993	.8586	.3126	130	76.0530	1.4384	.2820
91	31.0579	.8734	.3133	131	77.4914	1.4516	.2797
92	31.9313	.8882	.3140	132	78.9430	1.4647	.2773
93	32.8195	.9031	.3146	133	80.4077	1.4777	.2749
94	33.7226	.9179	.3150	134	81.8854	1.4905	.2724
95	34.6405	.9328	.3155	135	83.3759	1.5033	.2699
96	35.5733	.9478	.3159	136	84.8792	1.5159	.2672
97	36.5211	.9626	.3161	137	86.3951	1.5284	.2645
98	37.4837	.9776	.3164	138	87.9235	1.5407	.2617
99	38.4613	.9926	.3165	139	89.4642	1.5529	.2589
100	39.4539	1.0074	.3164	140	91.0171	1.5651	.2561
101	40.4613	1.0224	.3165	141	92.5822	1.5770	.2531
102	41.4837	1.0374	.3164	142	94.1592	1.5888	.2500
103	42.5211	1.0522	.3161	143	95.7480	1.6004	.2469
104	43.5733	1.0672	.3159	144	97.3484	1.6120	.2438
105	44.6405	1.0821	.3155	145	98.9604	1.6233	.2406
106	45.7226	1.0969	.3150	146	100.5837	1.6345	.2374
107	46.8195	1.1118	.3146	147	102.2182	1.6456	.2341
108	47.9313	1.1266	.3140	148	103.8638	1.6564	.2307
109	49.0579	1.1414	.3133	149	105.5202	1.6672	.2273
110	50.1993	1.1561	.3126	150	107.1874	1.6778	.2238
111	51.3554	1.1709	.3118	151	108.8652	1.6881	.2202
112	52.5263	1.1855	.3109	152	110.5533	1.6984	.2167
113	53.7118	1.2002	.3099	153	112.2517	1.7084	.2130
114	54.9120	1.2148	.3089	154	113.9601	1.7183	.2093
115	56.1268	1.2292	.3077	155	115.6784	1.7280	.2056
116	57.3560	1.2438	.3066	156	117.4064	1.7376	.2018
117	58.5998	1.2581	.3052	157	119.1440	1.7468	.1978
118	59.8579	1.2725	.3039	158	120.8908	1.7561	.1940
119	61.1304	1.2868	.3025	159	122.6469	1.7650	.1900
120	62.4172	1.3010	.3010	160	124.4119	1.7738	.1860

$e = 20^c$				$e = 21^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	124.4119	1.7738	.1860	0	.0000	.0540	.0000
161	126.1857	1.7823	.1819	1	.0540	.0541	.0052
162	127.9680	1.7908	.1779	2	.1081	.0547	.0104
163	129.7588	1.7990	.1737	3	.1628	.0553	.0156
164	131.5578	1.8069	.1695	4	.2181	.0563	.0209
165	133.3647	1.8148	.1654	5	.2744	.0575	.0260
166	135.1795	1.8224	.1611	6	.3319	.0588	.0312
167	137.0019	1.8298	.1568	7	.3907	.0605	.0364
168	138.8317	1.8370	.1524	8	.4512	.0624	.0415
169	140.6687	1.8439	.1480	9	.5136	.0644	.0467
170	142.5126	1.8508	.1437	10	.5780	.0668	.0518
171	144.3634	1.8573	.1392	11	.6448	.0693	.0569
172	146.2207	1.8637	.1348	12	.7141	.0721	.0621
173	148.0844	1.8698	.1302	13	.7862	.0751	.0672
174	149.9542	1.8758	.1257	14	.8613	.0784	.0723
175	151.8300	1.8815	.1211	15	.9397	.0818	.0773
176	153.7115	1.8870	.1165	16	1.0215	.0855	.0824
177	155.5985	1.8922	.1118	17	1.1070	.0895	.0874
178	157.4907	1.8974	.1072	18	1.1965	.0935	.0924
179	159.3881	1.9021	.1025	19	1.2900	.0980	.0975
180	161.2902	1.9068	.0978	20	1.3880	.1026	.1024
181	163.1970	1.9112	.0930	21	1.4906	.1073	.1073
182	165.1082	1.9153	.0883	22	1.5979	.1124	.1123
183	167.0235	1.9193	.0835	23	1.7103	.1177	.1171
184	168.9428	1.9230	.0787	24	1.8280	.1231	.1220
185	170.8658	1.9265	.0739	25	1.9511	.1288	.1268
186	172.7923	1.9297	.0690	26	2.0799	.1347	.1316
187	174.7220	1.9328	.0642	27	2.2146	.1409	.1364
188	176.6548	1.9356	.0593	28	2.3555	.1471	.1410
189	178.5904	1.9381	.0544	29	2.5026	.1537	.1458
190	180.5285	1.9405	.0495	30	2.6563	.1604	.1504
191	182.4690	1.9426	.0446	31	2.8167	.1674	.1551
192	184.4116	1.9444	.0396	32	2.9841	.1746	.1597
193	186.3560	1.9461	.0347	33	3.1587	.1819	.1642
194	188.3021	1.9475	.0298	34	3.3406	.1895	.1687
195	190.2496	1.9487	.0248	35	3.5301	.1972	.1731
196	192.1983	1.9496	.0198	36	3.7273	.2052	.1776
197	194.1479	1.9503	.0149	37	3.9325	.2134	.1820
198	196.0982	1.9508	.0099	38	4.1459	.2217	.1862
199	198.0490	1.9510	.0050	39	4.3676	.2303	.1905
200	200.0000	1.9510	.0000	40	4.5979	.2390	.1947

$e = 21^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	4.5979	.2390	.1947	80	22.7182	.7147	.3151
41	4.8369	.2479	.1989	81	23.4329	.7289	.3167
42	5.0848	.2570	.2031	82	24.1618	.7432	.3182
43	5.3418	.2664	.2072	83	24.9050	.7576	.3196
44	5.6082	.2758	.2112	84	25.6626	.7719	.3209
45	5.8840	.2854	.2151	85	26.4345	.7864	.3222
46	6.1694	.2953	.2191	86	27.2209	.8008	.3233
47	6.4647	.3053	.2230	87	28.0217	.8155	.3245
48	6.7700	.3154	.2268	88	28.8372	.8300	.3254
49	7.0854	.3258	.2306	89	29.6672	.8447	.3264
50	7.4112	.3363	.2343	90	30.5119	.8593	.3272
51	7.7475	.3470	.2379	91	31.3712	.8741	.3280
52	8.0945	.3578	.2415	92	32.2453	.8888	.3287
53	8.4523	.3688	.2450	93	33.1341	.9035	.3293
54	8.8211	.3799	.2485	94	34.0376	.9184	.3299
55	9.2010	.3912	.2520	95	34.9560	.9332	.3303
56	9.5922	.4027	.2553	96	35.8892	.9480	.3307
57	9.9949	.4143	.2586	97	36.8372	.9629	.3310
58	10.4092	.4261	.2618	98	37.8001	.9777	.3311
59	10.8353	.4379	.2649	99	38.7778	.9925	.3313
60	11.2732	.4499	.2680	100	39.7703	1.0075	.3314
61	11.7231	.4621	.2711	101	40.7778	1.0223	.3313
62	12.1852	.4744	.2741	102	41.8001	1.0371	.3311
63	12.6596	.4868	.2769	103	42.8372	1.0520	.3310
64	13.1464	.4994	.2798	104	43.8892	1.0668	.3307
65	13.6458	.5120	.2825	105	44.9560	1.0816	.3303
66	14.1578	.5248	.2852	106	46.0376	1.0965	.3299
67	14.6826	.5377	.2878	107	47.1341	1.1112	.3293
68	15.2203	.5508	.2904	108	48.2453	1.1259	.3287
69	15.7711	.5639	.2928	109	49.3712	1.1407	.3280
70	16.3350	.5771	.2952	110	50.5119	1.1553	.3272
71	16.9121	.5905	.2975	111	51.6672	1.1700	.3264
72	17.5026	.6039	.2998	112	52.8372	1.1845	.3254
73	18.1065	.6174	.3020	113	54.0217	1.1992	.3245
74	18.7239	.6311	.3041	114	55.2209	1.2136	.3233
75	19.3550	.6449	.3062	115	56.4345	1.2281	.3222
76	19.9999	.6586	.3080	116	57.6626	1.2424	.3209
77	20.6585	.6726	.3100	117	58.9050	1.2568	.3196
78	21.3311	.6865	.3117	118	60.1618	1.2711	.3182
79	22.0176	.7006	.3135	119	61.4329	1.2853	.3167
80	22.7182	.7147	.3151	120	62.7182	1.2994	.3151

$e = 21^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	62.7182	1.2994	.3151	160	124.5979	1.7697	.1947
121	64.0176	1.3135	.3135	161	126.3676	1.7783	.1905
122	65.3311	1.3274	.3117	162	128.1459	1.7866	.1862
123	66.6585	1.3414	.3100	163	129.9325	1.7948	.1820
124	67.9999	1.3551	.3080	164	131.7273	1.8028	.1776
125	69.3550	1.3689	.3062	165	133.5301	1.8105	.1731
126	70.7239	1.3826	.3041	166	135.3406	1.8181	.1687
127	72.1065	1.3961	.3020	167	137.1587	1.8254	.1642
128	73.5026	1.4095	.2998	168	138.9841	1.8326	.1597
129	74.9121	1.4229	.2975	169	140.8167	1.8396	.1551
130	76.3350	1.4361	.2952	170	142.6563	1.8463	.1504
131	77.7711	1.4492	.2928	171	144.5026	1.8529	.1458
132	79.2203	1.4623	.2904	172	146.3555	1.8591	.1410
133	80.6826	1.4752	.2878	173	148.2146	1.8653	.1364
134	82.1578	1.4880	.2852	174	150.0799	1.8712	.1316
135	83.6458	1.5006	.2825	175	151.9511	1.8769	.1268
136	85.1464	1.5132	.2798	176	153.8280	1.8823	.1220
137	86.6596	1.5256	.2769	177	155.7103	1.8876	.1171
138	88.1852	1.5379	.2741	178	157.5979	1.8927	.1123
139	89.7231	1.5501	.2711	179	159.4906	1.8974	.1073
140	91.2732	1.5621	.2680	180	161.3880	1.9020	.1024
141	92.8353	1.5739	.2649	181	163.2900	1.9065	.0975
142	94.4092	1.5857	.2618	182	165.1965	1.9105	.0924
143	95.9949	1.5973	.2586	183	167.1070	1.9145	.0874
144	97.5922	1.6088	.2553	184	169.0215	1.9182	.0824
145	99.2010	1.6201	.2520	185	170.9397	1.9216	.0773
146	100.8211	1.6312	.2485	186	172.8613	1.9249	.0723
147	102.4523	1.6422	.2450	187	174.7862	1.9279	.0672
148	104.0945	1.6530	.2415	188	176.7141	1.9307	.0621
149	105.7475	1.6637	.2379	189	178.6448	1.9332	.0569
150	107.4112	1.6742	.2343	190	180.5780	1.9356	.0518
151	109.0854	1.6846	.2306	191	182.5136	1.9376	.0467
152	110.7700	1.6947	.2268	192	184.4512	1.9395	.0415
153	112.4647	1.7047	.2230	193	186.3907	1.9412	.0364
154	114.1694	1.7146	.2191	194	188.3319	1.9425	.0312
155	115.8840	1.7242	.2151	195	190.2744	1.9437	.0260
156	117.6082	1.7336	.2112	196	192.2181	1.9447	.0209
157	119.3418	1.7430	.2072	197	194.1628	1.9453	.0156
158	121.0848	1.7521	.2031	198	196.1081	1.9459	.0104
159	122.8369	1.7610	.1989	199	198.0540	1.9460	.0052
160	124.5979	1.7697	.1947	200	200.0000	1.9460	.0000

$e = 22^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0592	.0000	40	4.7926	.2432	.2035
1	.0592	.0593	.0054	41	5.0358	.2521	.2078
2	.1185	.0599	.0109	42	5.2879	.2611	.2121
3	.1784	.0606	.0163	43	5.5490	.2704	.2164
4	.2390	.0614	.0217	44	5.8194	.2797	.2206
5	.3004	.0627	.0272	45	6.0991	.2894	.2248
6	.3631	.0640	.0325	46	6.3885	.2992	.2289
7	.4271	.0656	.0380	47	6.6877	.3091	.2329
8	.4927	.0676	.0434	48	6.9968	.3192	.2369
9	.5603	.0695	.0487	49	7.3160	.3295	.2409
10	.6298	.0719	.0542	50	7.6455	.3399	.2447
11	.7017	.0745	.0595	51	7.9854	.3506	.2486
12	.7762	.0772	.0648	52	8.3360	.3613	.2523
13	.8534	.0802	.0702	53	8.6973	.3723	.2560
14	.9336	.0834	.0755	54	9.0696	.3834	.2596
15	1.0170	.0869	.0808	55	9.4530	.3945	.2631
16	1.1039	.0905	.0861	56	9.8475	.4060	.2667
17	1.1944	.0945	.0914	57	10.2535	.4175	.2701
18	1.2889	.0986	.0966	58	10.6710	.4292	.2735
19	1.3875	.1029	.1017	59	11.1002	.4410	.2768
20	1.4904	.1075	.1070	60	11.5412	.4530	.2800
21	1.5979	.1123	.1121	61	11.9942	.4651	.2832
22	1.7102	.1172	.1172	62	12.4593	.4772	.2862
23	1.8274	.1226	.1224	63	12.9365	.4897	.2893
24	1.9500	.1279	.1274	64	13.4262	.5021	.2922
25	2.0779	.1336	.1325	65	13.9283	.5147	.2951
26	2.2115	.1395	.1375	66	14.4430	.5274	.2979
27	2.3510	.1455	.1424	67	14.9704	.5403	.3007
28	2.4965	.1519	.1474	68	15.5107	.5532	.3033
29	2.6484	.1583	.1522	69	16.0639	.5663	.3059
30	2.8067	.1651	.1572	70	16.6302	.5794	.3084
31	2.9718	.1720	.1619	71	17.2096	.5928	.3109
32	3.1438	.1791	.1667	72	17.8024	.6061	.3131
33	3.3229	.1864	.1714	73	18.4085	.6195	.3154
34	3.5093	.1939	.1762	74	19.0280	.6332	.3177
35	3.7032	.2017	.1809	75	19.6612	.6467	.3197
36	3.9049	.2096	.1854	76	20.3079	.6606	.3218
37	4.1145	.2176	.1900	77	20.9685	.6743	.3237
38	4.3321	.2260	.1946	78	21.6428	.6883	.3257
39	4.5581	.2345	.1991	79	22.3311	.7022	.3274
40	4.7926	.2432	.2035	80	23.0333	.7163	.3292

$e = 22^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	23.0333	.7163	.3292	120	63.0333	1.2978	.3292
81	23.7496	.7304	.3308	121	64.3311	1.3117	.3274
82	24.4800	.7446	.3324	122	65.6428	1.3257	.3257
83	25.2246	.7589	.3339	123	66.9685	1.3394	.3237
84	25.9835	.7732	.3352	124	68.3079	1.3533	.3218
85	26.7567	.7875	.3365	125	69.6612	1.3668	.3197
86	27.5442	.8020	.3378	126	71.0280	1.3805	.3177
87	28.3462	.8164	.3389	127	72.4085	1.3939	.3154
88	29.1626	.8310	.3400	128	73.8024	1.4072	.3131
89	29.9936	.8455	.3410	129	75.2096	1.4206	.3109
90	30.8391	.8601	.3419	130	76.6302	1.4337	.3084
91	31.6992	.8748	.3427	131	78.0639	1.4468	.3059
92	32.5740	.8894	.3434	132	79.5107	1.4597	.3033
93	33.4634	.9041	.3440	133	80.9704	1.4726	.3007
94	34.3675	.9188	.3446	134	82.4430	1.4853	.2979
95	35.2863	.9336	.3451	135	83.9283	1.4979	.2951
96	36.2199	.9483	.3454	136	85.4262	1.5103	.2922
97	37.1682	.9630	.3457	137	86.9365	1.5228	.2893
98	38.1312	.9779	.3460	138	88.4593	1.5349	.2862
99	39.1091	.9926	.3460	139	89.9942	1.5470	.2832
100	40.1017	1.0074	.3461	140	91.5412	1.5590	.2800
101	41.1091	1.0221	.3460	141	93.1002	1.5708	.2768
102	42.1312	1.0370	.3460	142	94.6710	1.5825	.2735
103	43.1682	1.0517	.3457	143	96.2535	1.5940	.2701
104	44.2199	1.0664	.3454	144	97.8475	1.6055	.2667
105	45.2863	1.0812	.3451	145	99.4530	1.6166	.2631
106	46.3675	1.0959	.3446	146	101.0696	1.6277	.2596
107	47.4634	1.1106	.3440	147	102.6973	1.6387	.2560
108	48.5740	1.1252	.3434	148	104.3360	1.6494	.2523
109	49.6992	1.1399	.3427	149	105.9854	1.6601	.2486
110	50.8391	1.1545	.3419	150	107.6455	1.6705	.2447
111	51.9936	1.1690	.3410	151	109.3160	1.6808	.2409
112	53.1626	1.1836	.3400	152	110.9968	1.6909	.2369
113	54.3462	1.1980	.3389	153	112.6877	1.7008	.2329
114	55.5442	1.2125	.3378	154	114.3885	1.7106	.2289
115	56.7567	1.2268	.3365	155	116.0991	1.7203	.2248
116	57.9835	1.2411	.3352	156	117.8194	1.7296	.2206
117	59.2246	1.2554	.3339	157	119.5490	1.7389	.2164
118	60.4800	1.2696	.3324	158	121.2879	1.7479	.2121
119	61.7496	1.2837	.3308	159	123.0358	1.7568	.2078
120	63.0333	1.2978	.3292	160	124.7926	1.7655	.2035

$e = 22^c$				$e = 23^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	124.7926	1.7655	.2035	0	.0000	.0646	.0000
161	126.5581	1.7740	.1991	1	.0646	.0648	.0057
162	128.3321	1.7824	.1946	2	.1294	.0653	.0114
163	130.1145	1.7904	.1900	3	.1947	.0660	.0170
164	131.9049	1.7983	.1854	4	.2607	.0669	.0226
165	133.7032	1.8061	.1809	5	.3276	.0680	.0283
166	135.5093	1.8136	.1762	6	.3956	.0695	.0340
167	137.3229	1.8209	.1714	7	.4651	.0710	.0396
168	139.1438	1.8280	.1667	8	.5361	.0729	.0452
169	140.9718	1.8349	.1619	9	.6090	.0750	.0509
170	142.8067	1.8417	.1572	10	.6840	.0772	.0564
171	144.6484	1.8481	.1522	11	.7612	.0798	.0621
172	146.4965	1.8545	.1474	12	.8410	.0826	.0676
173	148.3510	1.8605	.1424	13	.9236	.0855	.0731
174	150.2115	1.8664	.1375	14	1.0091	.0887	.0787
175	152.0779	1.8721	.1325	15	1.0978	.0922	.0842
176	153.9500	1.8774	.1274	16	1.1900	.0958	.0897
177	155.8274	1.8828	.1224	17	1.2858	.0997	.0952
178	157.7102	1.8877	.1172	18	1.3855	.1037	.1006
179	159.5979	1.8925	.1121	19	1.4892	.1082	.1061
180	161.4904	1.8971	.1070	20	1.5974	.1126	.1114
181	163.3875	1.9014	.1017	21	1.7100	.1174	.1169
182	165.2889	1.9055	.0966	22	1.8274	.1224	.1222
183	167.1944	1.9095	.0914	23	1.9498	.1276	.1275
184	169.1039	1.9131	.0861	24	2.0774	.1330	.1328
185	171.0170	1.9166	.0808	25	2.2104	.1386	.1380
186	172.9336	1.9198	.0755	26	2.3490	.1444	.1433
187	174.8534	1.9228	.0702	27	2.4934	.1505	.1485
188	176.7762	1.9255	.0648	28	2.6439	.1567	.1536
189	178.7017	1.9281	.0595	29	2.8006	.1633	.1588
190	180.6298	1.9305	.0542	30	2.9639	.1698	.1638
191	182.5603	1.9324	.0487	31	3.1337	.1768	.1689
192	184.4927	1.9344	.0434	32	3.3105	.1838	.1738
193	186.4271	1.9360	.0380	33	3.4943	.1912	.1788
194	188.3631	1.9373	.0325	34	3.6855	.1986	.1836
195	190.3004	1.9386	.0272	35	3.8841	.2062	.1885
196	192.2390	1.9394	.0217	36	4.0903	.2142	.1934
197	194.1784	1.9401	.0163	37	4.3045	.2222	.1981
198	196.1185	1.9407	.0109	38	4.5267	.2305	.2028
199	198.0592	1.9408	.0054	39	4.7572	.2389	.2074
200	200.0000	1.9408	.0000	40	4.9961	.2475	.2121

$e = 23^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	4.9961	.2475	.2121	80	23.3625	.7179	.3431
41	5.2436	.2564	.2167	81	24.0804	.7320	.3449
42	5.5000	.2654	.2212	82	24.8124	.7461	.3465
43	5.7654	.2746	.2256	83	25.5585	.7602	.3480
44	6.0400	.2839	.2300	84	26.3187	.7745	.3495
45	6.3239	.2935	.2344	85	27.0932	.7888	.3509
46	6.6174	.3032	.2386	86	27.8820	.8031	.3521
47	6.9206	.3131	.2428	87	28.6851	.8175	.3533
48	7.2337	.3232	.2470	88	29.5026	.8320	.3544
49	7.5569	.3333	.2510	89	30.3346	.8464	.3554
50	7.8902	.3438	.2552	90	31.1810	.8609	.3563
51	8.2340	.3543	.2591	91	32.0419	.8755	.3572
52	8.5883	.3650	.2630	92	32.9174	.8900	.3579
53	8.9533	.3759	.2669	93	33.8074	.9047	.3587
54	9.3292	.3869	.2707	94	34.7121	.9193	.3592
55	9.7161	.3981	.2744	95	35.6314	.9339	.3597
56	10.1142	.4094	.2780	96	36.5653	.9486	.3601
57	10.5236	.4209	.2816	97	37.5139	.9633	.3604
58	10.9445	.4325	.2851	98	38.4772	.9779	.3606
59	11.3770	.4442	.2885	99	39.4551	.9927	.3608
60	11.8212	.4562	.2919	100	40.4478	1.0073	.3608
61	12.2774	.4681	.2952	101	41.4551	1.0221	.3608
62	12.7455	.4803	.2984	102	42.4772	1.0367	.3606
63	13.2258	.4926	.3016	103	43.5139	1.0514	.3604
64	13.7184	.5050	.3046	104	44.5653	1.0661	.3601
65	14.2234	.5175	.3076	105	45.6314	1.0807	.3597
66	14.7409	.5302	.3106	106	46.7121	1.0953	.3592
67	15.2711	.5429	.3134	107	47.8074	1.1100	.3587
68	15.8140	.5558	.3162	108	48.9174	1.1245	.3579
69	16.3698	.5688	.3189	109	50.0419	1.1391	.3572
70	16.9386	.5819	.3215	110	51.1810	1.1536	.3563
71	17.5205	.5950	.3240	111	52.3346	1.1680	.3554
72	18.1155	.6084	.3265	112	53.5026	1.1825	.3544
73	18.7239	.6218	.3289	113	54.6851	1.1969	.3533
74	19.3457	.6352	.3311	114	55.8820	1.2112	.3521
75	19.9809	.6488	.3334	115	57.0932	1.2255	.3509
76	20.6297	.6625	.3355	116	58.3187	1.2398	.3495
77	21.2922	.6763	.3375	117	59.5585	1.2539	.3480
78	21.9685	.6900	.3394	118	60.8124	1.2680	.3465
79	22.6585	.7040	.3414	119	62.0804	1.2821	.3449
80	23.3625	.7179	.3431	120	63.3625	1.2960	.3431



$e = 23^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	63.3625	1.2960	.3431	160	124.9961	1.7611	.2121
121	64.6585	1.3100	.3414	161	126.7572	1.7695	.2074
122	65.9685	1.3237	.3394	162	128.5267	1.7778	.2028
123	67.2922	1.3375	.3375	163	130.3045	1.7858	.1981
124	68.6297	1.3512	.3355	164	132.0903	1.7938	.1934
125	69.9809	1.3648	.3334	165	133.8841	1.8014	.1885
126	71.3457	1.3782	.3311	166	135.6855	1.8088	.1836
127	72.7239	1.3916	.3289	167	137.4943	1.8162	.1788
128	74.1155	1.4050	.3265	168	139.3105	1.8232	.1738
129	75.5205	1.4181	.3240	169	141.1337	1.8302	.1689
130	76.9386	1.4312	.3215	170	142.9639	1.8367	.1638
131	78.3698	1.4442	.3189	171	144.8006	1.8433	.1588
132	79.8140	1.4571	.3162	172	146.6439	1.8495	.1536
133	81.2711	1.4698	.3134	173	148.4934	1.8556	.1485
134	82.7409	1.4825	.3106	174	150.3490	1.8614	.1433
135	84.2234	1.4950	.3076	175	152.2104	1.8670	.1380
136	85.7184	1.5074	.3046	176	154.0774	1.8724	.1328
137	87.2258	1.5197	.3016	177	155.9498	1.8776	.1275
138	88.7455	1.5319	.2984	178	157.8274	1.8826	.1222
139	90.2774	1.5438	.2952	179	159.7100	1.8874	.1169
140	91.8212	1.5558	.2919	180	161.5974	1.8918	.1114
141	93.3770	1.5675	.2885	181	163.4892	1.8963	.1061
142	94.9445	1.5791	.2851	182	165.3855	1.9003	.1006
143	96.5236	1.5906	.2816	183	167.2858	1.9042	.0952
144	98.1142	1.6019	.2780	184	169.1900	1.9078	.0897
145	99.7161	1.6131	.2744	185	171.0978	1.9113	.0842
146	101.3292	1.6241	.2707	186	173.0091	1.9145	.0787
147	102.9533	1.6350	.2669	187	174.9236	1.9174	.0731
148	104.5883	1.6457	.2630	188	176.8410	1.9202	.0676
149	106.2340	1.6562	.2591	189	178.7612	1.9228	.0621
150	107.8902	1.6667	.2552	190	180.6840	1.9250	.0564
151	109.5569	1.6768	.2510	191	182.6090	1.9271	.0509
152	111.2337	1.6869	.2470	192	184.5361	1.9290	.0452
153	112.9206	1.6968	.2428	193	186.4651	1.9305	.0396
154	114.6174	1.7065	.2386	194	188.3956	1.9320	.0340
155	116.3239	1.7161	.2344	195	190.3276	1.9331	.0283
156	118.0400	1.7254	.2300	196	192.2607	1.9340	.0226
157	119.7654	1.7346	.2256	197	194.1947	1.9347	.0170
158	121.5000	1.7436	.2212	198	196.1294	1.9352	.0114
159	123.2436	1.7525	.2167	199	198.0646	1.9354	.0057
160	124.9961	1.7611	.2121	200	200.0000	1.9354	.0000

$e = 24^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0703	.0000	40	5.2082	.2521	.2206
1	.0703	.0705	.0059	41	5.4603	.2609	.2254
2	.1408	.0709	.0117	42	5.7212	.2698	.2301
3	.2117	.0716	.0177	43	5.9910	.2790	.2347
4	.2833	.0726	.0236	44	6.2700	.2883	.2393
5	.3559	.0737	.0295	45	6.5583	.2977	.2438
6	.4296	.0751	.0353	46	6.8560	.3074	.2483
7	.5047	.0766	.0412	47	7.1634	.3173	.2527
8	.5813	.0786	.0471	48	7.4807	.3272	.2570
9	.6599	.0805	.0529	49	7.8079	.3375	.2613
10	.7404	.0829	.0588	50	8.1454	.3477	.2654
11	.8233	.0853	.0645	51	8.4931	.3582	.2696
12	.9086	.0881	.0704	52	8.8513	.3689	.2737
13	.9967	.0911	.0762	53	9.2202	.3797	.2777
14	1.0878	.0942	.0819	54	9.5999	.3906	.2816
15	1.1820	.0977	.0877	55	9.9905	.4017	.2855
16	1.2797	.1013	.0934	56	10.3922	.4130	.2893
17	1.3810	.1051	.0990	57	10.8052	.4244	.2930
18	1.4861	.1092	.1048	58	11.2296	.4359	.2966
19	1.5953	.1135	.1104	59	11.6655	.4476	.3002
20	1.7088	.1181	.1161	60	12.1131	.4595	.3038
21	1.8269	.1227	.1216	61	12.5726	.4713	.3071
22	1.9496	.1277	.1272	62	13.0439	.4835	.3105
23	2.0773	.1329	.1327	63	13.5274	.4956	.3138
24	2.2102	.1382	.1382	64	14.0230	.5080	.3170
25	2.3484	.1439	.1437	65	14.5310	.5205	.3201
26	2.4923	.1496	.1491	66	15.0515	.5330	.3231
27	2.6419	.1556	.1545	67	15.5845	.5457	.3261
28	2.7975	.1619	.1599	68	16.1302	.5585	.3289
29	2.9594	.1683	.1651	69	16.6887	.5714	.3317
30	3.1277	.1749	.1704	70	17.2601	.5844	.3345
31	3.3026	.1817	.1756	71	17.8445	.5975	.3371
32	3.4843	.1888	.1809	72	18.4420	.6108	.3397
33	3.6731	.1960	.1860	73	19.0528	.6240	.3421
34	3.8691	.2035	.1911	74	19.6768	.6375	.3445
35	4.0726	.2111	.1961	75	20.3143	.6509	.3468
36	4.2837	.2189	.2011	76	20.9652	.6645	.3491
37	4.5026	.2269	.2061	77	21.6297	.6782	.3512
38	4.7295	.2351	.2110	78	22.3079	.6920	.3533
39	4.9646	.2436	.2159	79	22.9999	.7057	.3551
40	5.2082	.2521	.2206	80	23.7056	.7197	.3571

$e = 24^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	23.7056	.7197	.3571	120	63.7056	1.2943	.3571
81	24.4253	.7336	.3588	121	64.9999	1.3080	.3551
82	25.1589	.7476	.3605	122	66.3079	1.3218	.3533
83	25.9065	.7617	.3621	123	67.6297	1.3355	.3512
84	26.6682	.7759	.3636	124	68.9652	1.3491	.3491
85	27.4441	.7900	.3650	125	70.3143	1.3625	.3468
86	28.2341	.8043	.3664	126	71.6768	1.3760	.3445
87	29.0384	.8186	.3676	127	73.0528	1.3892	.3421
88	29.8570	.8330	.3688	128	74.4420	1.4025	.3397
89	30.6900	.8473	.3698	129	75.8445	1.4156	.3371
90	31.5373	.8618	.3708	130	77.2601	1.4286	.3345
91	32.3991	.8762	.3717	131	78.6887	1.4415	.3317
92	33.2753	.8908	.3725	132	80.1302	1.4543	.3289
93	34.1661	.9052	.3731	133	81.5845	1.4670	.3261
94	35.0713	.9198	.3737	134	83.0515	1.4795	.3231
95	35.9911	.9343	.3742	135	84.5310	1.4920	.3201
96	36.9254	.9489	.3747	136	86.0230	1.5044	.3170
97	37.8743	.9635	.3750	137	87.5274	1.5165	.3138
98	38.8378	.9781	.3752	138	89.0439	1.5287	.3105
99	39.8159	.9927	.3754	139	90.5726	1.5405	.3071
100	40.8086	1.0073	.3754	140	92.1131	1.5524	.3038
101	41.8159	1.0219	.3754	141	93.6655	1.5641	.3002
102	42.8378	1.0365	.3752	142	95.2296	1.5756	.2966
103	43.8743	1.0511	.3750	143	96.8052	1.5870	.2930
104	44.9254	1.0657	.3747	144	98.3922	1.5983	.2893
105	45.9911	1.0802	.3742	145	99.9905	1.6094	.2855
106	47.0713	1.0948	.3737	146	101.5999	1.6203	.2816
107	48.1661	1.1092	.3731	147	103.2202	1.6311	.2777
108	49.2753	1.1238	.3725	148	104.8513	1.6418	.2737
109	50.3991	1.1382	.3717	149	106.4931	1.6523	.2696
110	51.5373	1.1527	.3708	150	108.1454	1.6625	.2654
111	52.6900	1.1670	.3698	151	109.8079	1.6728	.2613
112	53.8570	1.1814	.3688	152	111.4807	1.6827	.2570
113	55.0384	1.1957	.3676	153	113.1634	1.6926	.2527
114	56.2341	1.2100	.3664	154	114.8560	1.7023	.2483
115	57.4441	1.2241	.3650	155	116.5583	1.7117	.2438
116	58.6682	1.2383	.3636	156	118.2700	1.7210	.2393
117	59.9065	1.2524	.3621	157	119.9910	1.7302	.2347
118	61.1589	1.2664	.3605	158	121.7212	1.7391	.2301
119	62.4253	1.2803	.3588	159	123.4603	1.7479	.2254
120	63.7056	1.2943	.3571	160	125.2082	1.7564	.2206

$e = 24^c$				$e = 25^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	125.2082	1.7564	.2206	0	.0000	.0762	.0000
161	126.9646	1.7649	.2159	1	.0762	.0763	.0061
162	128.7295	1.7731	.2110	2	.1525	.0769	.0123
163	130.5026	1.7811	.2061	3	.2294	.0775	.0184
164	132.2837	1.7889	.2011	4	.3069	.0785	.0245
165	134.0726	1.7965	.1961	5	.3854	.0795	.0305
166	135.8691	1.8040	.1911	6	.4649	.0810	.0367
167	137.6731	1.8112	.1860	7	.5459	.0825	.0428
168	139.4843	1.8183	.1809	8	.6284	.0844	.0489
169	141.3026	1.8251	.1756	9	.7128	.0864	.0549
170	143.1277	1.8317	.1704	10	.7992	.0886	.0609
171	144.9594	1.8381	.1651	11	.8878	.0912	.0671
172	146.7975	1.8444	.1599	12	.9790	.0939	.0730
173	148.6419	1.8504	.1545	13	1.0729	.0968	.0790
174	150.4923	1.8561	.1491	14	1.1697	.1000	.0850
175	152.3484	1.8618	.1437	15	1.2697	.1034	.0910
176	154.2102	1.8671	.1382	16	1.3731	.1069	.0969
177	156.0773	1.8723	.1327	17	1.4800	.1109	.1029
178	157.9496	1.8773	.1272	18	1.5909	.1148	.1087
179	159.8269	1.8819	.1216	19	1.7057	.1192	.1147
180	161.7088	1.8865	.1161	20	1.8249	.1236	.1205
181	163.5953	1.8908	.1104	21	1.9485	.1283	.1263
182	165.4861	1.8949	.1048	22	2.0768	.1332	.1321
183	167.3810	1.8987	.0990	23	2.2100	.1384	.1379
184	169.2797	1.9023	.0934	24	2.3484	.1437	.1435
185	171.1820	1.9058	.0877	25	2.4921	.1493	.1492
186	173.0878	1.9089	.0819	26	2.6414	.1550	.1548
187	174.9967	1.9119	.0762	27	2.7964	.1610	.1604
188	176.9086	1.9147	.0704	28	2.9574	.1671	.1660
189	178.8233	1.9171	.0645	29	3.1245	.1736	.1716
190	180.7404	1.9195	.0588	30	3.2981	.1801	.1770
191	182.6599	1.9214	.0529	31	3.4782	.1870	.1825
192	184.5813	1.9234	.0471	32	3.6652	.1939	.1878
193	186.5047	1.9249	.0412	33	3.8591	.2011	.1932
194	188.4296	1.9263	.0353	34	4.0602	.2085	.1985
195	190.3559	1.9274	.0295	35	4.2687	.2161	.2038
196	192.2833	1.9284	.0236	36	4.4848	.2239	.2089
197	194.2117	1.9291	.0177	37	4.7087	.2318	.2141
198	196.1408	1.9295	.0117	38	4.9405	.2400	.2192
199	198.0703	1.9297	.0059	39	5.1805	.2483	.2242
200	200.0000	1.9297	.0000	40	5.4288	.2569	.2292

$e = 25^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	5.4288	.2569	.2292	80	24.0627	.7214	.3708
41	5.6857	.2656	.2341	81	24.7841	.7353	.3727
42	5.9513	.2744	.2389	82	25.5194	.7492	.3744
43	6.2257	.2836	.2438	83	26.2686	.7632	.3761
44	6.5093	.2928	.2485	84	27.0318	.7773	.3777
45	6.8021	.3022	.2532	85	27.8091	.7914	.3791
46	7.1043	.3118	.2578	86	28.6005	.8055	.3805
47	7.4161	.3216	.2624	87	29.4060	.8198	.3819
48	7.7377	.3315	.2669	88	30.2258	.8340	.3830
49	8.0692	.3416	.2713	89	31.0598	.8483	.3841
50	8.4108	.3519	.2757	90	31.9081	.8627	.3851
51	8.7627	.3623	.2800	91	32.7708	.8770	.3860
52	9.1250	.3729	.2842	92	33.6478	.8914	.3868
53	9.4979	.3836	.2884	93	34.5392	.9058	.3876
54	9.8815	.3945	.2925	94	35.4450	.9203	.3882
55	10.2760	.4055	.2965	95	36.3653	.9348	.3887
56	10.6815	.4167	.3004	96	37.3001	.9492	.3891
57	11.0982	.4280	.3043	97	38.2493	.9637	.3895
58	11.5262	.4395	.3081	98	39.2130	.9783	.3898
59	11.9657	.4512	.3119	99	40.1913	.9927	.3898
60	12.4169	.4628	.3154	100	41.1840	1.0073	.3899
61	12.8797	.4747	.3190	101	42.1913	1.0217	.3898
62	13.3544	.4868	.3225	102	43.2130	1.0363	.3898
63	13.8412	.4988	.3259	103	44.2493	1.0508	.3895
64	14.3400	.5111	.3292	104	45.3001	1.0652	.3891
65	14.8511	.5235	.3325	105	46.3653	1.0797	.3887
66	15.3746	.5360	.3356	106	47.4450	1.0942	.3882
67	15.9106	.5485	.3387	107	48.5392	1.1086	.3876
68	16.4591	.5613	.3417	108	49.6478	1.1230	.3868
69	17.0204	.5742	.3446	109	50.7708	1.1373	.3860
70	17.5946	.5870	.3474	110	51.9081	1.1517	.3851
71	18.1816	.6001	.3502	111	53.0598	1.1660	.3841
72	18.7817	.6132	.3528	112	54.2258	1.1802	.3830
73	19.3949	.6264	.3554	113	55.4060	1.1945	.3819
74	20.0213	.6398	.3579	114	56.6005	1.2086	.3805
75	20.6611	.6532	.3602	115	57.8091	1.2227	.3791
76	21.3143	.6666	.3625	116	59.0318	1.2368	.3777
77	21.9809	.6803	.3648	117	60.2686	1.2508	.3761
78	22.6612	.6938	.3668	118	61.5194	1.2647	.3744
79	23.3550	.7077	.3689	119	62.7841	1.2786	.3727
80	24.0627	.7214	.3708	120	64.0627	1.2923	.3708

$e = 25^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	64.0627	1.2923	.3708	160	125.4288	1.7517	.2292
121	65.3550	1.3062	.3689	161	127.1805	1.7600	.2242
122	66.6612	1.3197	.3668	162	128.9405	1.7682	.2192
123	67.9809	1.3334	.3648	163	130.7087	1.7761	.2141
124	69.3143	1.3468	.3625	164	132.4848	1.7839	.2089
125	70.6611	1.3602	.3602	165	134.2687	1.7915	.2038
126	72.0213	1.3736	.3579	166	136.0602	1.7989	.1985
127	73.3949	1.3868	.3554	167	137.8591	1.8061	.1932
128	74.7817	1.3999	.3528	168	139.6652	1.8130	.1878
129	76.1816	1.4130	.3502	169	141.4782	1.8199	.1825
130	77.5946	1.4258	.3474	170	143.2981	1.8264	.1770
131	79.0204	1.4387	.3446	171	145.1245	1.8329	.1716
132	80.4591	1.4515	.3417	172	146.9574	1.8390	.1660
133	81.9106	1.4640	.3387	173	148.7964	1.8450	.1604
134	83.3746	1.4765	.3356	174	150.6414	1.8507	.1548
135	84.8511	1.4889	.3325	175	152.4921	1.8563	.1492
136	86.3400	1.5012	.3292	176	154.3484	1.8616	.1435
137	87.8412	1.5132	.3259	177	156.2100	1.8668	.1379
138	89.3544	1.5253	.3225	178	158.0768	1.8717	.1321
139	90.8797	1.5372	.3190	179	159.9485	1.8764	.1263
140	92.4169	1.5488	.3154	180	161.8249	1.8808	.1205
141	93.9657	1.5605	.3119	181	163.7057	1.8852	.1147
142	95.5262	1.5720	.3081	182	165.5909	1.8891	.1087
143	97.0982	1.5833	.3043	183	167.4800	1.8931	.1029
144	98.6815	1.5945	.3004	184	169.3731	1.8966	.0969
145	100.2760	1.6055	.2965	185	171.2697	1.9000	.0910
146	101.8815	1.6164	.2925	186	173.1697	1.9032	.0850
147	103.4979	1.6271	.2884	187	175.0729	1.9061	.0790
148	105.1250	1.6377	.2842	188	176.9790	1.9088	.0730
149	106.7627	1.6481	.2800	189	178.8878	1.9114	.0671
150	108.4108	1.6584	.2757	190	180.7992	1.9136	.0609
151	110.0692	1.6685	.2713	191	182.7128	1.9156	.0549
152	111.7377	1.6784	.2669	192	184.6284	1.9175	.0489
153	113.4161	1.6882	.2624	193	186.5459	1.9190	.0428
154	115.1043	1.6978	.2578	194	188.4649	1.9205	.0367
155	116.8021	1.7072	.2532	195	190.3854	1.9215	.0305
156	118.5093	1.7164	.2485	196	192.3069	1.9225	.0245
157	120.2257	1.7256	.2438	197	194.2294	1.9231	.0184
158	121.9513	1.7344	.2389	198	196.1525	1.9237	.0123
159	123.6857	1.7431	.2341	199	198.0762	1.9238	.0061
160	125.4288	1.7517	.2292	200	200.0000	1.9238	.0000

$e = 26^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0823	.0000	40	5.6580	.2618	.2377
1	.0823	.0825	.0063	41	5.9198	.2704	.2428
2	.1648	.0830	.0127	42	6.1902	.2793	.2479
3	.2478	.0836	.0190	43	6.4695	.2883	.2528
4	.3314	.0845	.0254	44	6.7578	.2975	.2578
5	.4159	.0857	.0318	45	7.0553	.3068	.2626
6	.5016	.0871	.0381	46	7.3621	.3164	.2674
7	.5887	.0886	.0443	47	7.6785	.3261	.2721
8	.6773	.0904	.0506	48	8.0046	.3359	.2768
9	.7677	.0924	.0570	49	8.3405	.3460	.2814
10	.8601	.0948	.0633	50	8.6865	.3562	.2859
11	.9549	.0971	.0695	51	9.0427	.3665	.2904
12	1.0520	.0999	.0758	52	9.4092	.3771	.2948
13	1.1519	.1028	.0820	53	9.7863	.3877	.2990
14	1.2547	.1060	.0883	54	10.1740	.3985	.3033
15	1.3607	.1093	.0944	55	10.5725	.4094	.3074
16	1.4700	.1129	.1006	56	10.9819	.4206	.3116
17	1.5829	.1167	.1067	57	11.4025	.4318	.3156
18	1.6996	.1208	.1129	58	11.8343	.4433	.3195
19	1.8204	.1250	.1189	59	12.2776	.4547	.3233
20	1.9454	.1294	.1249	60	12.7323	.4664	.3271
21	2.0748	.1341	.1309	61	13.1987	.4782	.3308
22	2.2089	.1390	.1369	62	13.6769	.4902	.3345
23	2.3479	.1440	.1429	63	14.1671	.5021	.3379
24	2.4919	.1494	.1489	64	14.6692	.5144	.3414
25	2.6413	.1549	.1547	65	15.1836	.5266	.3447
26	2.7962	.1606	.1606	66	15.7102	.5391	.3481
27	2.9568	.1666	.1664	67	16.2493	.5515	.3512
28	3.1234	.1727	.1721	68	16.8008	.5642	.3544
29	3.2961	.1790	.1779	69	17.3650	.5770	.3574
30	3.4751	.1856	.1836	70	17.9420	.5898	.3603
31	3.6607	.1923	.1892	71	18.5318	.6027	.3631
32	3.8530	.1993	.1948	72	19.1345	.6158	.3659
33	4.0523	.2064	.2003	73	19.7503	.6289	.3685
34	4.2587	.2138	.2058	74	20.3792	.6421	.3711
35	4.4725	.2212	.2112	75	21.0213	.6555	.3736
36	4.6937	.2291	.2167	76	21.6768	.6689	.3760
37	4.9228	.2369	.2219	77	22.3457	.6823	.3782
38	5.1597	.2450	.2272	78	23.0280	.6959	.3805
39	5.4047	.2533	.2325	79	23.7239	.7096	.3826
40	5.6580	.2618	.2377	80	24.4335	.7233	.3846

$e = 26^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	24.4335	.7233	.3846	120	64.4335	1.2904	.3846
81	25.1568	.7370	.3864	121	65.7239	1.3041	.3826
82	25.8938	.7509	.3883	122	67.0280	1.3177	.3805
83	26.6447	.7648	.3900	123	68.3457	1.3311	.3782
84	27.4095	.7787	.3916	124	69.6768	1.3445	.3760
85	28.1882	.7928	.3932	125	71.0213	1.3579	.3736
86	28.9810	.8069	.3946	126	72.3792	1.3711	.3711
87	29.7879	.8209	.3959	127	73.7503	1.3842	.3685
88	30.6088	.8351	.3972	128	75.1345	1.3973	.3659
89	31.4439	.8493	.3983	129	76.5318	1.4102	.3631
90	32.2932	.8636	.3994	130	77.9420	1.4230	.3603
91	33.1568	.8778	.4003	131	79.3650	1.4358	.3574
92	34.0346	.8922	.4012	132	80.8008	1.4485	.3544
93	34.9268	.9064	.4019	133	82.2493	1.4609	.3512
94	35.8332	.9208	.4026	134	83.7102	1.4734	.3481
95	36.7540	.9352	.4031	135	85.1836	1.4856	.3447
96	37.6892	.9496	.4036	136	86.6692	1.4979	.3414
97	38.6388	.9640	.4039	137	88.1671	1.5098	.3379
98	39.6028	.9783	.4041	138	89.6769	1.5218	.3345
99	40.5811	.9928	.4043	139	91.1987	1.5336	.3308
100	41.5739	1.0072	.4044	140	92.7323	1.5453	.3271
101	42.5811	1.0217	.4043	141	94.2776	1.5567	.3233
102	43.6028	1.0360	.4041	142	95.8343	1.5682	.3195
103	44.6388	1.0504	.4039	143	97.4025	1.5794	.3156
104	45.6892	1.0648	.4036	144	98.9819	1.5906	.3116
105	46.7540	1.0792	.4031	145	100.5725	1.6015	.3074
106	47.8332	1.0936	.4026	146	102.1740	1.6123	.3033
107	48.9268	1.1078	.4019	147	103.7863	1.6229	.2990
108	50.0346	1.1222	.4012	148	105.4092	1.6335	.2948
109	51.1568	1.1364	.4003	149	107.0427	1.6438	.2904
110	52.2932	1.1507	.3994	150	108.6865	1.6540	.2859
111	53.4439	1.1649	.3983	151	110.3405	1.6641	.2814
112	54.6088	1.1791	.3972	152	112.0046	1.6739	.2768
113	55.7879	1.1931	.3959	153	113.6785	1.6836	.2721
114	56.9810	1.2072	.3946	154	115.3621	1.6932	.2674
115	58.1882	1.2213	.3932	155	117.0553	1.7025	.2626
116	59.4095	1.2352	.3916	156	118.7578	1.7117	.2578
117	60.6447	1.2491	.3900	157	120.4695	1.7207	.2528
118	61.8938	1.2630	.3883	158	122.1902	1.7296	.2479
119	63.1568	1.2767	.3864	159	123.9198	1.7382	.2428
120	64.4335	1.2904	.3846	160	125.6580	1.7467	.2377



$e = 26^c$				$e = 27^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	125.6580	1.7467	.2377	0	.0000	.0886	.0000
161	127.4047	1.7550	.2325	1	.0886	.0889	.0066
162	129.1597	1.7631	.2272	2	.1775	.0893	.0131
163	130.9228	1.7709	.2219	3	.2668	.0900	.0197
164	132.6937	1.7788	.2167	4	.3568	.0909	.0263
165	134.4725	1.7862	.2112	5	.4477	.0920	.0328
166	136.2587	1.7936	.2058	6	.5397	.0933	.0394
167	138.0523	1.8007	.2003	7	.6330	.0949	.0460
168	139.8530	1.8077	.1948	8	.7279	.0968	.0525
169	141.6607	1.8144	.1892	9	.8247	.0987	.0590
170	143.4751	1.8210	.1836	10	.9234	.1010	.0655
171	145.2961	1.8273	.1779	11	1.0244	.1034	.0720
172	147.1234	1.8334	.1721	12	1.1278	.1061	.0785
173	148.9568	1.8394	.1664	13	1.2339	.1091	.0849
174	150.7962	1.8451	.1606	14	1.3430	.1121	.0913
175	152.6413	1.8506	.1547	15	1.4551	.1155	.0977
176	154.4919	1.8560	.1489	16	1.5706	.1190	.1041
177	156.3479	1.8610	.1429	17	1.6896	.1229	.1105
178	158.2089	1.8659	.1369	18	1.8125	.1268	.1168
179	160.0748	1.8706	.1309	19	1.9393	.1310	.1231
180	161.9454	1.8750	.1249	20	2.0703	.1354	.1294
181	163.8204	1.8792	.1189	21	2.2057	.1401	.1357
182	165.6996	1.8833	.1129	22	2.3458	.1450	.1419
183	167.5829	1.8871	.1067	23	2.4908	.1500	.1480
184	169.4700	1.8907	.1006	24	2.6408	.1552	.1541
185	171.3607	1.8940	.0944	25	2.7960	.1608	.1603
186	173.2547	1.8972	.0883	26	2.9568	.1664	.1663
187	175.1519	1.9001	.0820	27	3.1232	.1723	.1723
188	177.0520	1.9029	.0758	28	3.2955	.1785	.1783
189	178.9549	1.9052	.0695	29	3.4740	.1847	.1841
190	180.8601	1.9076	.0633	30	3.6587	.1912	.1900
191	182.7677	1.9096	.0570	31	3.8499	.1979	.1959
192	184.6773	1.9114	.0506	32	4.0478	.2048	.2017
193	186.5887	1.9129	.0443	33	4.2526	.2119	.2075
194	188.5016	1.9143	.0381	34	4.4645	.2192	.2131
195	190.4159	1.9155	.0318	35	4.6837	.2267	.2188
196	192.3314	1.9164	.0254	36	4.9104	.2343	.2243
197	194.2478	1.9170	.0190	37	5.1447	.2422	.2299
198	196.1648	1.9175	.0127	38	5.3869	.2503	.2354
199	198.0823	1.9177	.0063	39	5.6372	.2585	.2407
200	200.0000	1.9177	.0000	40	5.8957	.2669	.2461

$e = 27^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	5.8957	.2669	.2461	80	24.8181	.7251	.3981
41	6.1626	.2755	.2513	81	25.5432	.7389	.4002
42	6.4381	.2842	.2566	82	26.2821	.7526	.4020
43	6.7223	.2933	.2618	83	27.0347	.7664	.4038
44	7.0156	.3023	.2668	84	27.8011	.7803	.4055
45	7.3179	.3116	.2719	85	28.5814	.7942	.4071
46	7.6295	.3211	.2769	86	29.3756	.8082	.4086
47	7.9506	.3308	.2818	87	30.1838	.8222	.4100
48	8.2814	.3405	.2866	88	31.0060	.8362	.4112
49	8.6219	.3505	.2914	89	31.8422	.8504	.4125
50	8.9724	.3607	.2961	90	32.6926	.8645	.4135
51	9.3331	.3709	.3006	91	33.5571	.8787	.4145
52	9.7040	.3813	.3052	92	34.4358	.8929	.4153
53	10.0853	.3920	.3097	93	35.3287	.9071	.4161
54	10.4773	.4026	.3140	94	36.2358	.9213	.4168
55	10.8799	.4136	.3184	95	37.1571	.9357	.4174
56	11.2935	.4246	.3226	96	38.0928	.9499	.4178
57	11.7181	.4357	.3267	97	39.0427	.9642	.4182
58	12.1538	.4471	.3308	98	40.0069	.9785	.4184
59	12.6009	.4585	.3348	99	40.9854	.9929	.4186
60	13.0594	.4701	.3387	100	41.9783	1.0071	.4186
61	13.5295	.4819	.3426	101	42.9854	1.0215	.4186
62	14.0114	.4936	.3462	102	44.0069	1.0358	.4184
63	14.5050	.5056	.3499	103	45.0427	1.0501	.4182
64	15.0106	.5177	.3535	104	46.0928	1.0643	.4178
65	15.5283	.5300	.3570	105	47.1571	1.0787	.4174
66	16.0583	.5422	.3603	106	48.2358	1.0929	.4168
67	16.6005	.5547	.3637	107	49.3287	1.1071	.4161
68	17.1552	.5672	.3668	108	50.4358	1.1213	.4153
69	17.7224	.5799	.3700	109	51.5571	1.1355	.4145
70	18.3023	.5926	.3730	110	52.6926	1.1496	.4135
71	18.8949	.6055	.3759	111	53.8422	1.1638	.4125
72	19.5004	.6184	.3788	112	55.0060	1.1778	.4112
73	20.1188	.6315	.3816	113	56.1838	1.1918	.4100
74	20.7503	.6446	.3842	114	57.3756	1.2058	.4086
75	21.3949	.6579	.3868	115	58.5814	1.2197	.4071
76	22.0528	.6711	.3892	116	59.8011	1.2336	.4055
77	22.7239	.6846	.3916	117	61.0347	1.2474	.4038
78	23.4085	.6980	.3939	118	62.2821	1.2611	.4020
79	24.1065	.7116	.3961	119	63.5432	1.2749	.4002
80	24.8181	.7251	.3981	120	64.8181	1.2884	.3981

$e = 27^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	64.8181	1.2884	.3981	160	125.8957	1.7415	.2461
121	66.1065	1.3020	.3961	161	127.6372	1.7497	.2407
122	67.4085	1.3154	.3939	162	129.3869	1.7578	.2354
123	68.7239	1.3289	.3916	163	131.1447	1.7657	.2299
124	70.0528	1.3421	.3892	164	132.9104	1.7733	.2243
125	71.3949	1.3554	.3868	165	134.6837	1.7808	.2188
126	72.7503	1.3685	.3842	166	136.4645	1.7881	.2131
127	74.1188	1.3816	.3816	167	138.2526	1.7952	.2075
128	75.5004	1.3945	.3788	168	140.0478	1.8021	.2017
129	76.8949	1.4074	.3759	169	141.8499	1.8088	.1959
130	78.3023	1.4201	.3730	170	143.6587	1.8153	.1900
131	79.7224	1.4328	.3700	171	145.4740	1.8215	.1841
132	81.1552	1.4453	.3668	172	147.2955	1.8277	.1783
133	82.6005	1.4578	.3637	173	149.1232	1.8336	.1723
134	84.0583	1.4700	.3603	174	150.9568	1.8392	.1663
135	85.5283	1.4823	.3570	175	152.7960	1.8448	.1603
136	87.0106	1.4944	.3535	176	154.6408	1.8500	.1541
137	88.5050	1.5064	.3499	177	156.4908	1.8550	.1480
138	90.0114	1.5181	.3462	178	158.3458	1.8599	.1419
139	91.5295	1.5299	.3426	179	160.2057	1.8646	.1357
140	93.0594	1.5415	.3387	180	162.0703	1.8690	.1294
141	94.6009	1.5529	.3348	181	163.9393	1.8732	.1231
142	96.1538	1.5643	.3308	182	165.8125	1.8771	.1168
143	97.7181	1.5754	.3267	183	167.6896	1.8810	.1105
144	99.2935	1.5864	.3226	184	169.5706	1.8845	.1041
145	100.8799	1.5974	.3184	185	171.4551	1.8879	.0977
146	102.4773	1.6080	.3140	186	173.3430	1.8909	.0913
147	104.0853	1.6187	.3097	187	175.2339	1.8939	.0849
148	105.7040	1.6291	.3052	188	177.1278	1.8966	.0785
149	107.3331	1.6393	.3006	189	179.0244	1.8990	.0720
150	108.9724	1.6495	.2961	190	180.9234	1.9013	.0655
151	110.6219	1.6595	.2914	191	182.8247	1.9032	.0590
152	112.2814	1.6692	.2866	192	184.7279	1.9051	.0525
153	113.9506	1.6789	.2818	193	186.6330	1.9067	.0460
154	115.6295	1.6884	.2769	194	188.5397	1.9080	.0394
155	117.3179	1.6977	.2719	195	190.4477	1.9091	.0328
156	119.0156	1.7067	.2668	196	192.3568	1.9100	.0263
157	120.7223	1.7158	.2618	197	194.2668	1.9107	.0197
158	122.4381	1.7245	.2566	198	196.1775	1.9111	.0131
159	124.1626	1.7331	.2513	199	198.0886	1.9114	.0066
160	125.8957	1.7415	.2461	200	200.0000	1.9114	.0000

$e = 28^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.0952	.0000	40	6.1418	.2721	.2544
1	.0952	.0954	.0068	41	6.4139	.2808	.2599
2	.1906	.0959	.0136	42	6.6947	.2894	.2653
3	.2865	.0966	.0204	43	6.9841	.2983	.2706
4	.3831	.0974	.0272	44	7.2824	.3074	.2759
5	.4805	.0986	.0340	45	7.5898	.3166	.2811
6	.5791	.0999	.0407	46	7.9064	.3260	.2863
7	.6790	.1014	.0475	47	8.2324	.3356	.2913
8	.7804	.1033	.0543	48	8.5680	.3453	.2963
9	.8837	.1052	.0609	49	8.9133	.3552	.3012
10	.9889	.1075	.0677	50	9.2685	.3652	.3061
11	1.0964	.1099	.0744	51	9.6337	.3755	.3109
12	1.2063	.1125	.0811	52	10.0092	.3858	.3155
13	1.3188	.1155	.0878	53	10.3950	.3963	.3201
14	1.4343	.1185	.0944	54	10.7913	.4070	.3247
15	1.5528	.1219	.1011	55	11.1983	.4178	.3291
16	1.6747	.1254	.1076	56	11.6161	.4287	.3335
17	1.8001	.1292	.1142	57	12.0448	.4398	.3378
18	1.9293	.1331	.1207	58	12.4846	.4511	.3421
19	2.0624	.1373	.1273	59	12.9357	.4624	.3462
20	2.1997	.1417	.1337	60	13.3981	.4740	.3502
21	2.3414	.1463	.1402	61	13.8721	.4855	.3541
22	2.4877	.1511	.1466	62	14.3576	.4973	.3580
23	2.6388	.1561	.1530	63	14.8549	.5092	.3618
24	2.7949	.1614	.1593	64	15.3641	.5212	.3655
25	2.9563	.1668	.1656	65	15.8853	.5333	.3691
26	3.1231	.1724	.1719	66	16.4186	.5456	.3726
27	3.2955	.1783	.1781	67	16.9642	.5578	.3760
28	3.4738	.1843	.1843	68	17.5220	.5704	.3794
29	3.6581	.1906	.1905	69	18.0924	.5829	.3825
30	3.8487	.1971	.1966	70	18.6753	.5955	.3857
31	4.0458	.2037	.2026	71	19.2708	.6084	.3888
32	4.2495	.2106	.2085	72	19.8792	.6212	.3916
33	4.4601	.2175	.2144	73	20.5004	.6341	.3945
34	4.6776	.2249	.2204	74	21.1345	.6472	.3973
35	4.9025	.2322	.2261	75	21.7817	.6603	.3999
36	5.1347	.2399	.2320	76	22.4420	.6735	.4025
37	5.3746	.2477	.2376	77	23.1155	.6869	.4050
38	5.6223	.2556	.2433	78	23.8024	.7002	.4072
39	5.8779	.2639	.2489	79	24.5026	.7136	.4095
40	6.1418	.2721	.2544	80	25.2162	.7272	.4117

$e = 28^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	25.2162	.7272	.4117	120	65.2162	1.2864	.4117
81	25.9434	.7407	.4137	121	66.5026	1.2998	.4095
82	26.6841	.7544	.4157	122	67.8024	1.3131	.4072
83	27.4385	.7681	.4175	123	69.1155	1.3265	.4050
84	28.2066	.7819	.4193	124	70.4420	1.3397	.4025
85	28.9885	.7957	.4209	125	71.7817	1.3528	.3999
86	29.7842	.8096	.4224	126	73.1345	1.3659	.3973
87	30.5938	.8234	.4238	127	74.5004	1.3788	.3945
88	31.4172	.8375	.4252	128	75.8792	1.3916	.3916
89	32.2547	.8514	.4264	129	77.2708	1.4045	.3888
90	33.1061	.8655	.4275	130	78.6753	1.4171	.3857
91	33.9716	.8795	.4285	131	80.0924	1.4296	.3825
92	34.8511	.8937	.4295	132	81.5220	1.4422	.3794
93	35.7448	.9078	.4302	133	82.9642	1.4544	.3760
94	36.6526	.9219	.4309	134	84.4186	1.4667	.3726
95	37.5745	.9361	.4315	135	85.8853	1.4788	.3691
96	38.5106	.9503	.4320	136	87.3641	1.4908	.3655
97	39.4609	.9644	.4324	137	88.8549	1.5027	.3618
98	40.4253	.9787	.4327	138	90.3576	1.5145	.3580
99	41.4040	.9929	.4328	139	91.8721	1.5260	.3541
100	42.3969	1.0071	.4329	140	93.3981	1.5376	.3502
101	43.4040	1.0213	.4328	141	94.9357	1.5489	.3462
102	44.4253	1.0356	.4327	142	96.4846	1.5602	.3421
103	45.4609	1.0497	.4324	143	98.0448	1.5713	.3378
104	46.5106	1.0639	.4320	144	99.6161	1.5822	.3335
105	47.5745	1.0781	.4315	145	101.1983	1.5930	.3291
106	48.6526	1.0922	.4309	146	102.7913	1.6037	.3247
107	49.7448	1.1063	.4302	147	104.3950	1.6142	.3201
108	50.8511	1.1205	.4295	148	106.0092	1.6245	.3155
109	51.9716	1.1345	.4285	149	107.6337	1.6348	.3109
110	53.1061	1.1486	.4275	150	109.2685	1.6448	.3061
111	54.2547	1.1625	.4264	151	110.9133	1.6547	.3012
112	55.4172	1.1766	.4252	152	112.5680	1.6644	.2963
113	56.5938	1.1904	.4238	153	114.2324	1.6740	.2913
114	57.7842	1.2043	.4224	154	115.9064	1.6834	.2863
115	58.9885	1.2181	.4209	155	117.5898	1.6926	.2811
116	60.2066	1.2319	.4193	156	119.2824	1.7017	.2759
117	61.4385	1.2456	.4175	157	120.9841	1.7106	.2706
118	62.6841	1.2593	.4157	158	122.6947	1.7192	.2653
119	63.9434	1.2728	.4137	159	124.4139	1.7279	.2599
120	65.2162	1.2864	.4117	160	126.1418	1.7361	.2544

$e = 28^c$				$e = 29^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	126.1418	1.7361	.2544	0	.0000	.1020	.0000
161	127.8779	1.7444	.2489	1	.1020	.1022	.0070
162	129.6223	1.7523	.2433	2	.2042	.1027	.0141
163	131.3746	1.7601	.2376	3	.3069	.1034	.0211
164	133.1347	1.7678	.2320	4	.4103	.1042	.0280
165	134.9025	1.7751	.2261	5	.5145	.1053	.0350
166	136.6776	1.7825	.2204	6	.6198	.1067	.0421
167	138.4601	1.7894	.2144	7	.7265	.1082	.0490
168	140.2495	1.7963	.2085	8	.8347	.1099	.0560
169	142.0458	1.8029	.2026	9	.9446	.1120	.0630
170	143.8487	1.8094	.1966	10	1.0566	.1142	.0699
171	145.6581	1.8157	.1905	11	1.1708	.1166	.0768
172	147.4738	1.8217	.1843	12	1.2874	.1192	.0837
173	149.2955	1.8276	.1781	13	1.4066	.1221	.0906
174	151.1231	1.8332	.1719	14	1.5287	.1252	.0975
175	152.9563	1.8386	.1656	15	1.6539	.1284	.1043
176	154.7949	1.8439	.1593	16	1.7823	.1320	.1112
177	156.6388	1.8489	.1530	17	1.9143	.1357	.1180
178	158.4877	1.8537	.1466	18	2.0500	.1397	.1247
179	160.3414	1.8583	.1402	19	2.1897	.1437	.1314
180	162.1997	1.8627	.1337	20	2.3334	.1482	.1382
181	164.0624	1.8669	.1273	21	2.4816	.1527	.1448
182	165.9293	1.8708	.1207	22	2.6343	.1575	.1514
183	167.8001	1.8746	.1142	23	2.7918	.1624	.1580
184	169.6747	1.8781	.1076	24	2.9542	.1677	.1646
185	171.5528	1.8815	.1011	25	3.1219	.1731	.1711
186	173.4343	1.8845	.0944	26	3.2950	.1786	.1775
187	175.3188	1.8875	.0878	27	3.4736	.1845	.1840
188	177.2063	1.8901	.0811	28	3.6581	.1905	.1903
189	179.0964	1.8925	.0744	29	3.8486	.1967	.1966
190	180.9889	1.8948	.0677	30	4.0453	.2031	.2029
191	182.8837	1.8967	.0609	31	4.2484	.2096	.2091
192	184.7804	1.8986	.0543	32	4.4580	.2165	.2154
193	186.6790	1.9001	.0475	33	4.6745	.2235	.2215
194	188.5791	1.9014	.0407	34	4.8980	.2306	.2275
195	190.4805	1.9026	.0340	35	5.1286	.2381	.2336
196	192.3831	1.9034	.0272	36	5.3667	.2455	.2395
197	194.2865	1.9041	.0204	37	5.6122	.2534	.2454
198	196.1906	1.9046	.0136	38	5.8656	.2612	.2512
199	198.0952	1.9048	.0068	39	6.1268	.2694	.2570
200	200.0000	1.9048	.0000	40	6.3962	.2776	.2627

$e = 29^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	6.3962	.2776	.2627	80	25.6279	.7292	.4251
41	6.6738	.2862	.2684	81	26.3571	.7427	.4272
42	6.9600	.2947	.2739	82	27.0998	.7562	.4292
43	7.2547	.3036	.2795	83	27.8560	.7699	.4312
44	7.5583	.3126	.2849	84	28.6259	.7835	.4329
45	7.8709	.3218	.2903	85	29.4094	.7972	.4346
46	8.1927	.3310	.2956	86	30.2066	.8110	.4362
47	8.5237	.3406	.3009	87	31.0176	.8248	.4377
48	8.8643	.3502	.3060	88	31.8424	.8387	.4391
49	9.2145	.3601	.3111	89	32.6811	.8525	.4403
50	9.5746	.3700	.3160	90	33.5336	.8665	.4415
51	9.9446	.3801	.3210	91	34.4001	.8805	.4426
52	10.3247	.3904	.3258	92	35.2806	.8944	.4434
53	10.7151	.4009	.3306	93	36.1750	.9085	.4443
54	11.1160	.4114	.3353	94	37.0835	.9225	.4450
55	11.5274	.4222	.3399	95	38.0060	.9366	.4456
56	11.9496	.4330	.3444	96	38.9426	.9507	.4461
57	12.3826	.4441	.3489	97	39.8933	.9647	.4464
58	12.8267	.4552	.3531	98	40.8580	.9788	.4468
59	13.2819	.4664	.3574	99	41.8368	.9930	.4470
60	13.7483	.4779	.3616	100	42.8298	1.0070	.4470
61	14.2262	.4894	.3657	101	43.8368	1.0212	.4470
62	14.7156	.5011	.3697	102	44.8580	1.0353	.4468
63	15.2167	.5129	.3736	103	45.8933	1.0493	.4464
64	15.7296	.5248	.3774	104	46.9426	1.0634	.4461
65	16.2544	.5368	.3811	105	48.0060	1.0775	.4456
66	16.7912	.5490	.3847	106	49.0835	1.0915	.4450
67	17.3402	.5612	.3882	107	50.1750	1.1056	.4443
68	17.9014	.5735	.3916	108	51.2806	1.1195	.4434
69	18.4749	.5861	.3951	109	52.4001	1.1335	.4426
70	19.0610	.5986	.3982	110	53.5336	1.1475	.4415
71	19.6596	.6112	.4014	111	54.6811	1.1613	.4403
72	20.2708	.6241	.4045	112	55.8424	1.1752	.4391
73	20.8949	.6369	.4074	113	57.0176	1.1890	.4377
74	21.5318	.6498	.4102	114	58.2066	1.2028	.4362
75	22.1816	.6629	.4130	115	59.4094	1.2165	.4346
76	22.8445	.6760	.4156	116	60.6259	1.2301	.4329
77	23.5205	.6891	.4181	117	61.8560	1.2438	.4312
78	24.2096	.7025	.4206	118	63.0998	1.2573	.4292
79	24.9121	.7158	.4229	119	64.3571	1.2708	.4272
80	25.6279	.7292	.4251	120	65.6279	1.2842	.4251

$e = 29^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	65.6279	1.2842	.4251	160	126.3962	1.7306	.2627
121	66.9121	1.2975	.4229	161	128.1268	1.7388	.2570
122	68.2096	1.3109	.4206	162	129.8656	1.7466	.2512
123	69.5205	1.3240	.4181	163	131.6122	1.7545	.2454
124	70.8445	1.3371	.4156	164	133.3667	1.7619	.2395
125	72.1816	1.3502	.4130	165	135.1286	1.7694	.2336
126	73.5318	1.3631	.4102	166	136.8980	1.7765	.2275
127	74.8949	1.3759	.4074	167	138.6745	1.7835	.2215
128	76.2708	1.3888	.4045	168	140.4580	1.7904	.2154
129	77.6596	1.4014	.4014	169	142.2484	1.7969	.2091
130	79.0610	1.4139	.3982	170	144.0453	1.8033	.2029
131	80.4749	1.4265	.3951	171	145.8486	1.8095	.1966
132	81.9014	1.4388	.3916	172	147.6581	1.8155	.1903
133	83.3402	1.4510	.3882	173	149.4736	1.8214	.1840
134	84.7912	1.4632	.3847	174	151.2950	1.8269	.1775
135	86.2544	1.4752	.3811	175	153.1219	1.8323	.1711
136	87.7296	1.4871	.3774	176	154.9542	1.8376	.1646
137	89.2167	1.4989	.3736	177	156.7918	1.8425	.1580
138	90.7156	1.5106	.3697	178	158.6343	1.8473	.1514
139	92.2262	1.5221	.3657	179	160.4816	1.8518	.1448
140	93.7483	1.5336	.3616	180	162.3334	1.8563	.1382
141	95.2819	1.5448	.3574	181	164.1897	1.8603	.1314
142	96.8267	1.5559	.3531	182	166.0500	1.8643	.1247
143	98.3826	1.5670	.3489	183	167.9143	1.8680	.1180
144	99.9496	1.5778	.3444	184	169.7823	1.8716	.1112
145	101.5274	1.5886	.3399	185	171.6539	1.8748	.1043
146	103.1160	1.5991	.3353	186	173.5287	1.8779	.0975
147	104.7151	1.6096	.3306	187	175.4066	1.8808	.0906
148	106.3247	1.6199	.3258	188	177.2874	1.8834	.0837
149	107.9446	1.6300	.3210	189	179.1708	1.8858	.0768
150	109.5746	1.6399	.3160	190	181.0566	1.8880	.0699
151	111.2145	1.6498	.3111	191	182.9446	1.8901	.0630
152	112.8643	1.6594	.3060	192	184.8347	1.8918	.0560
153	114.5237	1.6690	.3009	193	186.7265	1.8933	.0490
154	116.1927	1.6782	.2956	194	188.6198	1.8947	.0421
155	117.8709	1.6874	.2903	195	190.5145	1.8958	.0350
156	119.5583	1.6964	.2849	196	192.4103	1.8966	.0280
157	121.2547	1.7053	.2795	197	194.3069	1.8973	.0211
158	122.9600	1.7138	.2739	198	196.2042	1.8978	.0141
159	124.6738	1.7224	.2684	199	198.1020	1.8980	.0070
160	126.3962	1.7306	.2627	200	200.0000	1.8980	.0000



$e = 30^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1090	.0000	40	6.6589	.2833	.2710
1	.1090	.1093	.0073	41	6.9422	.2917	.2768
2	.2183	.1097	.0145	42	7.2339	.3003	.2826
3	.3280	.1103	.0217	43	7.5342	.3090	.2882
4	.4383	.1112	.0290	44	7.8432	.3180	.2939
5	.5495	.1124	.0362	45	8.1612	.3271	.2994
6	.6619	.1136	.0434	46	8.4883	.3363	.3048
7	.7755	.1152	.0506	47	8.8246	.3457	.3102
8	.8907	.1169	.0578	48	9.1703	.3553	.3155
9	1.0076	.1189	.0650	49	9.5256	.3650	.3208
10	1.1265	.1211	.0721	50	9.8906	.3750	.3260
11	1.2476	.1235	.0793	51	10.2656	.3849	.3310
12	1.3711	.1261	.0864	52	10.6505	.3952	.3361
13	1.4972	.1290	.0935	53	11.0457	.4056	.3410
14	1.6262	.1320	.1006	54	11.4513	.4160	.3458
15	1.7582	.1353	.1076	55	11.8673	.4267	.3505
16	1.8935	.1388	.1146	56	12.2940	.4375	.3552
17	2.0323	.1424	.1216	57	12.7315	.4483	.3597
18	2.1747	.1464	.1286	58	13.1798	.4595	.3643
19	2.3211	.1505	.1355	59	13.6393	.4706	.3686
20	2.4716	.1548	.1424	60	14.1099	.4820	.3730
21	2.6264	.1593	.1493	61	14.5919	.4934	.3771
22	2.7857	.1641	.1561	62	15.0853	.5050	.3813
23	2.9498	.1690	.1629	63	15.5903	.5167	.3853
24	3.1188	.1742	.1697	64	16.1070	.5285	.3892
25	3.2930	.1795	.1764	65	16.6355	.5404	.3930
26	3.4725	.1851	.1831	66	17.1759	.5525	.3968
27	3.6576	.1908	.1897	67	17.7284	.5646	.4004
28	3.8484	.1968	.1963	68	18.2930	.5770	.4040
29	4.0452	.2030	.2028	69	18.8700	.5892	.4073
30	4.2482	.2093	.2093	70	19.4592	.6018	.4108
31	4.4575	.2159	.2157	71	20.0610	.6143	.4139
32	4.6734	.2226	.2220	72	20.6753	.6270	.4171
33	4.8960	.2295	.2284	73	21.3023	.6397	.4201
34	5.1255	.2367	.2347	74	21.9420	.6526	.4230
35	5.3622	.2440	.2408	75	22.5946	.6655	.4258
36	5.6062	.2514	.2470	76	23.2601	.6785	.4286
37	5.8576	.2592	.2531	77	23.9386	.6916	.4312
38	6.1168	.2670	.2591	78	24.6302	.7048	.4337
39	6.3838	.2751	.2651	79	25.3350	.7180	.4361
40	6.6589	.2833	.2710	80	26.0530	.7313	.4384

$e = 30^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	26.0530	.7313	.4384	120	66.0530	1.2820	.4384
81	26.7843	.7447	.4406	121	67.3350	1.2952	.4361
82	27.5290	.7582	.4427	122	68.6302	1.3084	.4337
83	28.2872	.7716	.4446	123	69.9386	1.3215	.4312
84	29.0588	.7852	.4465	124	71.2601	1.3345	.4286
85	29.8440	.7988	.4483	125	72.5946	1.3474	.4258
86	30.6428	.8125	.4499	126	73.9420	1.3603	.4230
87	31.4553	.8262	.4514	127	75.3023	1.3730	.4201
88	32.2815	.8399	.4528	128	76.6753	1.3857	.4171
89	33.1214	.8537	.4541	129	78.0610	1.3982	.4139
90	33.9751	.8676	.4553	130	79.4592	1.4108	.4108
91	34.8427	.8813	.4563	131	80.8700	1.4230	.4073
92	35.7240	.8953	.4574	132	82.2930	1.4354	.4040
93	36.6193	.9092	.4582	133	83.7284	1.4475	.4004
94	37.5285	.9231	.4589	134	85.1759	1.4596	.3968
95	38.4516	.9371	.4596	135	86.6355	1.4715	.3930
96	39.3887	.9510	.4601	136	88.1070	1.4833	.3892
97	40.3397	.9651	.4605	137	89.5903	1.4950	.3853
98	41.3048	.9790	.4607	138	91.0853	1.5066	.3813
99	42.2838	.9930	.4609	139	92.5919	1.5180	.3771
100	43.2768	1.0070	.4609	140	94.1099	1.5294	.3730
101	44.2838	1.0210	.4609	141	95.6393	1.5405	.3686
102	45.3048	1.0349	.4607	142	97.1798	1.5517	.3643
103	46.3397	1.0490	.4605	143	98.7315	1.5625	.3597
104	47.3887	1.0629	.4601	144	100.2940	1.5733	.3552
105	48.4516	1.0769	.4596	145	101.8673	1.5840	.3505
106	49.5285	1.0908	.4589	146	103.4513	1.5944	.3458
107	50.6193	1.1047	.4582	147	105.0457	1.6048	.3410
108	51.7240	1.1187	.4574	148	106.6505	1.6151	.3361
109	52.8427	1.1324	.4563	149	108.2656	1.6250	.3310
110	53.9751	1.1463	.4553	150	109.8906	1.6350	.3260
111	55.1214	1.1601	.4541	151	111.5256	1.6447	.3208
112	56.2815	1.1738	.4528	152	113.1703	1.6543	.3155
113	57.4553	1.1875	.4514	153	114.8246	1.6637	.3102
114	58.6428	1.2012	.4499	154	116.4883	1.6729	.3048
115	59.8440	1.2148	.4483	155	118.1612	1.6820	.2994
116	61.0588	1.2284	.4465	156	119.8432	1.6910	.2939
117	62.2872	1.2418	.4446	157	121.5342	1.6997	.2882
118	63.5290	1.2553	.4427	158	123.2339	1.7083	.2826
119	64.7843	1.2687	.4406	159	124.9422	1.7167	.2768
120	66.0530	1.2820	.4384	160	126.6589	1.7249	.2710

$e = 30^c$				$e = 31^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	126.6589	1.7249	.2710	0	.0000	.1163	.0000
161	128.3838	1.7330	.2651	1	.1163	.1165	.0074
162	130.1168	1.7408	.2591	2	.2328	.1169	.0149
163	131.8576	1.7486	.2531	3	.3497	.1176	.0224
164	133.6062	1.7560	.2470	4	.4673	.1184	.0298
165	135.3622	1.7633	.2408	5	.5857	.1196	.0373
166	137.1255	1.7705	.2347	6	.7053	.1208	.0446
167	138.8960	1.7774	.2284	7	.8261	.1224	.0521
168	140.6734	1.7841	.2220	8	.9485	.1241	.0595
169	142.4575	1.7907	.2157	9	1.0726	.1260	.0669
170	144.2482	1.7970	.2093	10	1.1986	.1283	.0743
171	146.0452	1.8032	.2028	11	1.3269	.1306	.0816
172	147.8484	1.8092	.1963	12	1.4575	.1332	.0890
173	149.6576	1.8149	.1897	13	1.5907	.1361	.0963
174	151.4725	1.8205	.1831	14	1.7268	.1390	.1036
175	153.2930	1.8258	.1764	15	1.8658	.1423	.1109
176	155.1188	1.8310	.1697	16	2.0081	.1458	.1181
177	156.9498	1.8359	.1629	17	2.1539	.1494	.1253
178	158.7857	1.8407	.1561	18	2.3033	.1533	.1325
179	160.6264	1.8452	.1493	19	2.4566	.1574	.1397
180	162.4716	1.8495	.1424	20	2.6140	.1617	.1467
181	164.3211	1.8536	.1355	21	2.7757	.1661	.1538
182	166.1747	1.8576	.1286	22	2.9418	.1709	.1609
183	168.0323	1.8612	.1216	23	3.1127	.1758	.1679
184	169.8935	1.8647	.1146	24	3.2885	.1809	.1748
185	171.7582	1.8680	.1076	25	3.4694	.1862	.1817
186	173.6262	1.8710	.1006	26	3.6556	.1917	.1885
187	175.4972	1.8739	.0935	27	3.8473	.1974	.1954
188	177.3711	1.8765	.0864	28	4.0447	.2033	.2022
189	179.2476	1.8789	.0793	29	4.2480	.2095	.2089
190	181.1265	1.8811	.0721	30	4.4575	.2157	.2155
191	183.0076	1.8831	.0650	31	4.6732	.2222	.2222
192	184.8907	1.8848	.0578	32	4.8954	.2290	.2288
193	186.7755	1.8864	.0506	33	5.1244	.2358	.2352
194	188.6619	1.8876	.0434	34	5.3602	.2428	.2417
195	190.5495	1.8888	.0362	35	5.6030	.2502	.2482
196	192.4383	1.8897	.0290	36	5.8532	.2575	.2544
197	194.3280	1.8903	.0217	37	6.1107	.2652	.2607
198	196.2183	1.8907	.0145	38	6.3759	.2730	.2669
199	198.1090	1.8910	.0073	39	6.6489	.2810	.2730
200	200.0000	1.8910	.0000	40	6.9299	.2891	.2791

$e = 31^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	6.9299	.2891	.2791	80	26.4914	.7335	.4516
41	7.2190	.2975	.2851	81	27.2249	.7468	.4539
42	7.5165	.3059	.2910	82	27.9717	.7601	.4560
43	7.8224	.3147	.2969	83	28.7318	.7735	.4580
44	8.1371	.3235	.3027	84	29.5053	.7870	.4599
45	8.4606	.3325	.3084	85	30.2923	.8004	.4617
46	8.7931	.3417	.3140	86	31.0927	.8140	.4634
47	9.1348	.3510	.3196	87	31.9067	.8276	.4650
48	9.4858	.3606	.3251	88	32.7343	.8412	.4664
49	9.8464	.3702	.3304	89	33.5755	.8549	.4678
50	10.2166	.3800	.3357	90	34.4304	.8686	.4690
51	10.5966	.3900	.3410	91	35.2990	.8824	.4701
52	10.9866	.4001	.3461	92	36.1814	.8961	.4711
53	11.3867	.4104	.3512	93	37.0775	.9099	.4720
54	11.7971	.4207	.3561	94	37.9874	.9238	.4728
55	12.2178	.4314	.3611	95	38.9112	.9376	.4734
56	12.6492	.4420	.3659	96	39.8488	.9514	.4739
57	13.0912	.4529	.3706	97	40.8002	.9653	.4743
58	13.5441	.4638	.3752	98	41.7655	.9792	.4746
59	14.0079	.4750	.3798	99	42.7447	.9930	.4748
60	14.4829	.4861	.3841	100	43.7377	1.0070	.4749
61	14.9690	.4976	.3885	101	44.7447	1.0208	.4748
62	15.4666	.5090	.3927	102	45.7655	1.0347	.4746
63	15.9756	.5206	.3969	103	46.8002	1.0486	.4743
64	16.4962	.5323	.4009	104	47.8488	1.0624	.4739
65	17.0285	.5442	.4049	105	48.9112	1.0762	.4734
66	17.5727	.5561	.4087	106	49.9874	1.0901	.4728
67	18.1288	.5682	.4125	107	51.0775	1.1039	.4720
68	18.6970	.5803	.4161	108	52.1814	1.1176	.4711
69	19.2773	.5927	.4197	109	53.2990	1.1314	.4701
70	19.8700	.6049	.4230	110	54.4304	1.1451	.4690
71	20.4749	.6175	.4265	111	55.5755	1.1588	.4678
72	21.0924	.6300	.4296	112	56.7343	1.1724	.4664
73	21.7224	.6426	.4328	113	57.9067	1.1860	.4650
74	22.3650	.6554	.4358	114	59.0927	1.1996	.4634
75	23.0204	.6683	.4387	115	60.2923	1.2130	.4617
76	23.6887	.6811	.4415	116	61.5053	1.2265	.4599
77	24.3698	.6941	.4442	117	62.7318	1.2399	.4580
78	25.0639	.7072	.4468	118	63.9717	1.2532	.4560
79	25.7711	.7203	.4492	119	65.2249	1.2665	.4539
80	26.4914	.7335	.4516	120	66.4914	1.2797	.4516

$e = 31^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	66.4914	1.2797	.4516	160	126.9299	1.7190	.2791
121	67.7711	1.2928	.4492	161	128.6489	1.7270	.2730
122	69.0639	1.3059	.4468	162	130.3759	1.7348	.2669
123	70.3698	1.3189	.4442	163	132.1107	1.7425	.2607
124	71.6887	1.3317	.4415	164	133.8532	1.7498	.2544
125	73.0204	1.3446	.4387	165	135.6030	1.7572	.2482
126	74.3650	1.3574	.4358	166	137.3602	1.7642	.2417
127	75.7224	1.3700	.4328	167	139.1244	1.7710	.2352
128	77.0924	1.3825	.4296	168	140.8954	1.7778	.2288
129	78.4749	1.3951	.4265	169	142.6732	1.7843	.2222
130	79.8700	1.4073	.4230	170	144.4575	1.7905	.2155
131	81.2773	1.4197	.4197	171	146.2480	1.7967	.2089
132	82.6970	1.4318	.4161	172	148.0447	1.8026	.2022
133	84.1288	1.4439	.4125	173	149.8473	1.8083	.1954
134	85.5727	1.4558	.4087	174	151.6556	1.8138	.1885
135	87.0285	1.4677	.4049	175	153.4694	1.8191	.1817
136	88.4962	1.4794	.4009	176	155.2885	1.8242	.1748
137	89.9756	1.4910	.3969	177	157.1127	1.8291	.1679
138	91.4666	1.5024	.3927	178	158.9418	1.8339	.1609
139	92.9690	1.5139	.3885	179	160.7757	1.8383	.1538
140	94.4829	1.5250	.3841	180	162.6140	1.8426	.1467
141	96.0079	1.5362	.3798	181	164.4566	1.8467	.1397
142	97.5441	1.5471	.3752	182	166.3033	1.8506	.1325
143	99.0912	1.5580	.3706	183	168.1539	1.8542	.1253
144	100.6492	1.5686	.3659	184	170.0081	1.8577	.1181
145	102.2178	1.5793	.3611	185	171.8658	1.8610	.1109
146	103.7971	1.5896	.3561	186	173.7268	1.8639	.1036
147	105.3867	1.5999	.3512	187	175.5907	1.8668	.0963
148	106.9866	1.6100	.3461	188	177.4575	1.8694	.0890
149	108.5966	1.6200	.3410	189	179.3269	1.8717	.0816
150	110.2166	1.6298	.3357	190	181.1986	1.8740	.0743
151	111.8464	1.6394	.3304	191	183.0726	1.8759	.0669
152	113.4858	1.6490	.3251	192	184.9485	1.8776	.0595
153	115.1348	1.6583	.3196	193	186.8261	1.8792	.0521
154	116.7931	1.6675	.3140	194	188.7053	1.8804	.0446
155	118.4606	1.6765	.3084	195	190.5857	1.8816	.0373
156	120.1371	1.6853	.3027	196	192.4673	1.8824	.0298
157	121.8224	1.6941	.2969	197	194.3497	1.8831	.0224
158	123.5165	1.7025	.2910	198	196.2328	1.8835	.0149
159	125.2190	1.7109	.2851	199	198.1163	1.8837	.0074
160	126.9299	1.7190	.2791	200	200.0000	1.8837	.0000

$e = 32^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1237	.0000	40	7.2090	.2951	.2872
1	.1237	.1240	.0077	41	7.5041	.3034	.2934
2	.2477	.1244	.0153	42	7.8075	.3118	.2995
3	.3721	.1250	.0230	43	8.1193	.3205	.3055
4	.4971	.1259	.0307	44	8.4398	.3292	.3114
5	.6230	.1269	.0383	45	8.7690	.3381	.3173
6	.7499	.1283	.0460	46	9.1071	.3473	.3231
7	.8782	.1298	.0536	47	9.4544	.3565	.3288
8	1.0080	.1315	.0612	48	9.8109	.3659	.3345
9	1.1395	.1334	.0688	49	10.1768	.3755	.3401
10	1.2729	.1356	.0765	50	10.5523	.3853	.3455
11	1.4085	.1380	.0840	51	10.9376	.3951	.3509
12	1.5465	.1405	.0915	52	11.3327	.4052	.3562
13	1.6870	.1434	.0991	53	11.7379	.4153	.3614
14	1.8304	.1463	.1065	54	12.1532	.4257	.3666
15	1.9767	.1495	.1141	55	12.5789	.4362	.3716
16	2.1262	.1530	.1215	56	13.0151	.4467	.3764
17	2.2792	.1566	.1289	57	13.4618	.4575	.3813
18	2.4358	.1605	.1363	58	13.9193	.4684	.3861
19	2.5963	.1644	.1436	59	14.3877	.4793	.3907
20	2.7607	.1688	.1510	60	14.8670	.4905	.3953
21	2.9295	.1732	.1583	61	15.3575	.5018	.3998
22	3.1027	.1779	.1655	62	15.8593	.5132	.4041
23	3.2806	.1827	.1727	63	16.3725	.5246	.4084
24	3.4633	.1878	.1799	64	16.8971	.5363	.4126
25	3.6511	.1930	.1870	65	17.4334	.5480	.4166
26	3.8441	.1986	.1941	66	17.9814	.5599	.4206
27	4.0427	.2042	.2010	67	18.5413	.5718	.4244
28	4.2469	.2100	.2080	68	19.1131	.5839	.4282
29	4.4569	.2161	.2150	69	19.6970	.5960	.4318
30	4.6730	.2224	.2219	70	20.2930	.6084	.4354
31	4.8954	.2288	.2286	71	20.9014	.6206	.4388
32	5.1242	.2354	.2354	72	21.5220	.6332	.4422
33	5.3596	.2423	.2421	73	22.1552	.6456	.4453
34	5.6019	.2493	.2487	74	22.8008	.6583	.4485
35	5.8512	.2564	.2553	75	23.4591	.6711	.4515
36	6.1076	.2638	.2618	76	24.1302	.6838	.4543
37	6.3714	.2714	.2683	77	24.8140	.6967	.4571
38	6.6428	.2791	.2747	78	25.5107	.7096	.4597
39	6.9219	.2871	.2810	79	26.2203	.7227	.4623
40	7.2090	.2951	.2872	80	26.9430	.7358	.4647

$e = 32^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	26.9430	.7358	.4647	120	66.9430	1.2773	.4647
81	27.6788	.7489	.4670	121	68.2203	1.2904	.4623
82	28.4277	.7621	.4692	122	69.5107	1.3033	.4597
83	29.1898	.7754	.4713	123	70.8140	1.3162	.4571
84	29.9652	.7888	.4733	124	72.1302	1.3289	.4543
85	30.7540	.8021	.4751	125	73.4591	1.3417	.4515
86	31.5561	.8156	.4769	126	74.8008	1.3544	.4485
87	32.3717	.8290	.4785	127	76.1552	1.3668	.4453
88	33.2007	.8426	.4800	128	77.5220	1.3794	.4422
89	34.0433	.8561	.4813	129	78.9014	1.3916	.4388
90	34.8994	.8697	.4826	130	80.2930	1.4040	.4354
91	35.7691	.8834	.4838	131	81.6970	1.4161	.4318
92	36.6525	.8970	.4847	132	83.1131	1.4282	.4282
93	37.5495	.9107	.4857	133	84.5413	1.4401	.4244
94	38.4602	.9244	.4864	134	85.9814	1.4520	.4206
95	39.3846	.9381	.4871	135	87.4334	1.4637	.4166
96	40.3227	.9518	.4876	136	88.8971	1.4754	.4126
97	41.2745	.9656	.4881	137	90.3725	1.4868	.4084
98	42.2401	.9794	.4884	138	91.8593	1.4982	.4041
99	43.2195	.9931	.4885	139	93.3575	1.5095	.3998
100	44.2126	1.0069	.4886	140	94.8670	1.5207	.3953
101	45.2195	1.0206	.4885	141	96.3877	1.5316	.3907
102	46.2401	1.0344	.4884	142	97.9193	1.5425	.3861
103	47.2745	1.0482	.4881	143	99.4618	1.5533	.3813
104	48.3227	1.0619	.4876	144	101.0151	1.5638	.3764
105	49.3846	1.0756	.4871	145	102.5789	1.5743	.3716
106	50.4602	1.0893	.4864	146	104.1532	1.5847	.3666
107	51.5495	1.1030	.4857	147	105.7379	1.5948	.3614
108	52.6525	1.1166	.4847	148	107.3327	1.6049	.3562
109	53.7691	1.1303	.4838	149	108.9376	1.6147	.3509
110	54.8994	1.1439	.4826	150	110.5523	1.6245	.3455
111	56.0433	1.1574	.4813	151	112.1768	1.6341	.3401
112	57.2007	1.1710	.4800	152	113.8109	1.6435	.3345
113	58.3717	1.1844	.4785	153	115.4544	1.6527	.3288
114	59.5561	1.1979	.4769	154	117.1071	1.6619	.3231
115	60.7540	1.2112	.4751	155	118.7690	1.6708	.3173
116	61.9652	1.2246	.4733	156	120.4398	1.6795	.3114
117	63.1898	1.2379	.4713	157	122.1193	1.6882	.3055
118	64.4277	1.2511	.4692	158	123.8075	1.6966	.2995
119	65.6788	1.2642	.4670	159	125.5041	1.7049	.2934
120	66.9430	1.2773	.4647	160	127.2090	1.7129	.2872

$e = 32^c$				$e = 33^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	127.2090	1.7129	.2872	0	.0000	.1314	.0000
161	128.9219	1.7209	.2810	1	.1314	.1316	.0079
162	130.6428	1.7286	.2747	2	.2630	.1321	.0158
163	132.3714	1.7362	.2683	3	.3951	.1327	.0236
164	134.1076	1.7436	.2618	4	.5278	.1335	.0315
165	135.8512	1.7507	.2553	5	.6613	.1346	.0394
166	137.6019	1.7577	.2487	6	.7959	.1359	.0473
167	139.3596	1.7646	.2421	7	.9318	.1374	.0551
168	141.1242	1.7712	.2354	8	1.0692	.1391	.0630
169	142.8954	1.7776	.2286	9	1.2083	.1411	.0708
170	144.6730	1.7839	.2219	10	1.3494	.1431	.0785
171	146.4569	1.7900	.2150	11	1.4925	.1455	.0864
172	148.2469	1.7958	.2080	12	1.6380	.1481	.0942
173	150.0427	1.8014	.2010	13	1.7861	.1508	.1019
174	151.8441	1.8070	.1941	14	1.9369	.1539	.1096
175	153.6511	1.8122	.1870	15	2.0908	.1569	.1172
176	155.4633	1.8173	.1799	16	2.2477	.1604	.1250
177	157.2806	1.8221	.1727	17	2.4081	.1640	.1326
178	159.1027	1.8268	.1655	18	2.5721	.1678	.1402
179	160.9295	1.8312	.1583	19	2.7399	.1718	.1477
180	162.7607	1.8356	.1510	20	2.9117	.1761	.1552
181	164.5963	1.8395	.1436	21	3.0878	.1804	.1626
182	166.4358	1.8434	.1363	22	3.2682	.1851	.1701
183	168.2792	1.8470	.1289	23	3.4533	.1899	.1775
184	170.1262	1.8505	.1215	24	3.6432	.1949	.1848
185	171.9767	1.8537	.1141	25	3.8381	.2001	.1922
186	173.8304	1.8566	.1065	26	4.0382	.2055	.1995
187	175.6870	1.8595	.0991	27	4.2437	.2112	.2067
188	177.5465	1.8620	.0915	28	4.4549	.2170	.2139
189	179.4085	1.8644	.0840	29	4.6719	.2230	.2210
190	181.2729	1.8666	.0765	30	4.8949	.2291	.2280
191	183.1395	1.8685	.0688	31	5.1240	.2356	.2351
192	185.0080	1.8702	.0612	32	5.3596	.2421	.2420
193	186.8782	1.8717	.0536	33	5.6017	.2489	.2489
194	188.7499	1.8731	.0460	34	5.8506	.2559	.2557
195	190.6230	1.8741	.0383	35	6.1065	.2629	.2624
196	192.4971	1.8750	.0307	36	6.3694	.2703	.2691
197	194.3721	1.8756	.0230	37	6.6397	.2778	.2757
198	196.2477	1.8760	.0153	38	6.9175	.2854	.2823
199	198.1237	1.8763	.0077	39	7.2029	.2933	.2888
200	200.0000	1.8763	.0000	40	7.4962	.3013	.2952



$e = 33^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	7.4962	.3013	.2952	80	27.4077	.7381	.4777
41	7.7975	.3095	.3015	81	28.1458	.7511	.4801
42	8.1070	.3178	.3078	82	28.8969	.7642	.4823
43	8.4248	.3264	.3141	83	29.6611	.7774	.4845
44	8.7512	.3351	.3202	84	30.4385	.7906	.4865
45	9.0863	.3439	.3262	85	31.2291	.8039	.4884
46	9.4302	.3530	.3322	86	32.0330	.8172	.4901
47	9.7832	.3622	.3380	87	32.8502	.8305	.4918
48	10.1454	.3715	.3438	88	33.6807	.8439	.4934
49	10.5169	.3809	.3495	89	34.5246	.8574	.4948
50	10.8978	.3907	.3552	90	35.3820	.8709	.4961
51	11.2885	.4004	.3607	91	36.2529	.8843	.4972
52	11.6889	.4104	.3661	92	37.1372	.8980	.4983
53	12.0993	.4205	.3715	93	38.0352	.9114	.4992
54	12.5198	.4307	.3767	94	38.9466	.9251	.5000
55	12.9505	.4410	.3819	95	39.8717	.9386	.5007
56	13.3915	.4516	.3870	96	40.8103	.9523	.5013
57	13.8431	.4623	.3920	97	41.7626	.9659	.5017
58	14.3054	.4730	.3968	98	42.7285	.9795	.5020
59	14.7784	.4839	.4016	99	43.7080	.9932	.5022
60	15.2623	.4950	.4064	100	44.7012	1.0068	.5023
61	15.7573	.5061	.4109	101	45.7080	1.0205	.5022
62	16.2634	.5175	.4154	102	46.7285	1.0341	.5020
63	16.7809	.5288	.4197	103	47.7626	1.0477	.5017
64	17.3097	.5403	.4241	104	48.8103	1.0614	.5013
65	17.8500	.5520	.4283	105	49.8717	1.0749	.5007
66	18.4020	.5637	.4323	106	50.9466	1.0886	.5000
67	18.9657	.5756	.4363	107	52.0352	1.1020	.4992
68	19.5413	.5875	.4401	108	53.1372	1.1157	.4983
69	20.1288	.5996	.4439	109	54.2529	1.1291	.4972
70	20.7284	.6118	.4475	110	55.3820	1.1426	.4961
71	21.3402	.6240	.4510	111	56.5246	1.1561	.4948
72	21.9642	.6363	.4544	112	57.6807	1.1695	.4934
73	22.6005	.6488	.4578	113	58.8502	1.1828	.4918
74	23.2493	.6613	.4609	114	60.0330	1.1961	.4901
75	23.9106	.6739	.4640	115	61.2291	1.2094	.4884
76	24.5845	.6866	.4670	116	62.4385	1.2226	.4865
77	25.2711	.6993	.4698	117	63.6611	1.2358	.4845
78	25.9704	.7122	.4726	118	64.8969	1.2489	.4823
79	26.6826	.7251	.4752	119	66.1458	1.2619	.4801
80	27.4077	.7381	.4777	120	67.4077	1.2749	.4777

$e = 33^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	67.4077	1.2749	.4777	160	127.4962	1.7067	.2952
121	68.6826	1.2878	.4752	161	129.2029	1.7146	.2888
122	69.9704	1.3007	.4726	162	130.9175	1.7222	.2823
123	71.2711	1.3134	.4698	163	132.6397	1.7297	.2757
124	72.5845	1.3261	.4670	164	134.3694	1.7371	.2691
125	73.9106	1.3387	.4640	165	136.1065	1.7441	.2624
126	75.2493	1.3512	.4609	166	137.8506	1.7511	.2557
127	76.6005	1.3637	.4578	167	139.6017	1.7579	.2489
128	77.9642	1.3760	.4544	168	141.3596	1.7644	.2420
129	79.3402	1.3882	.4510	169	143.1240	1.7709	.2351
130	80.7284	1.4004	.4475	170	144.8949	1.7770	.2280
131	82.1288	1.4125	.4439	171	146.6719	1.7830	.2210
132	83.5413	1.4244	.4401	172	148.4549	1.7888	.2139
133	84.9657	1.4363	.4363	173	150.2437	1.7945	.2067
134	86.4020	1.4480	.4323	174	152.0382	1.7999	.1995
135	87.8500	1.4597	.4283	175	153.8381	1.8051	.1922
136	89.3097	1.4712	.4241	176	155.6432	1.8101	.1848
137	90.7809	1.4825	.4197	177	157.4533	1.8149	.1775
138	92.2634	1.4939	.4154	178	159.2682	1.8196	.1701
139	93.7573	1.5050	.4109	179	161.0878	1.8239	.1626
140	95.2623	1.5161	.4064	180	162.9117	1.8282	.1552
141	96.7784	1.5270	.4016	181	164.7399	1.8322	.1477
142	98.3054	1.5377	.3968	182	166.5721	1.8360	.1402
143	99.8431	1.5484	.3920	183	168.4081	1.8396	.1326
144	101.3915	1.5590	.3870	184	170.2477	1.8431	.1250
145	102.9505	1.5693	.3819	185	172.0908	1.8461	.1172
146	104.5198	1.5795	.3767	186	173.9369	1.8492	.1096
147	106.0993	1.5896	.3715	187	175.7861	1.8519	.1019
148	107.6889	1.5996	.3661	188	177.6380	1.8545	.0942
149	109.2885	1.6093	.3607	189	179.4925	1.8569	.0864
150	110.8978	1.6191	.3552	190	181.3494	1.8589	.0785
151	112.5169	1.6285	.3495	191	183.2083	1.8609	.0708
152	114.1454	1.6378	.3438	192	185.0692	1.8626	.0630
153	115.7832	1.6470	.3380	193	186.9318	1.8641	.0551
154	117.4302	1.6561	.3322	194	188.7959	1.8654	.0473
155	119.0863	1.6649	.3262	195	190.6613	1.8665	.0394
156	120.7512	1.6736	.3202	196	192.5278	1.8673	.0315
157	122.4248	1.6822	.3141	197	194.3951	1.8679	.0236
158	124.1070	1.6905	.3078	198	196.2630	1.8684	.0158
159	125.7975	1.6987	.3015	199	198.1314	1.8686	.0079
160	127.4962	1.7067	.2952	200	200.0000	1.8686	.0000

$e = 34^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1393	.0000	40	7.7914	.3076	.3032
1	.1393	.1395	.0081	41	8.0990	.3158	.3097
2	.2788	.1399	.0162	42	8.4148	.3241	.3161
3	.4187	.1406	.0243	43	8.7389	.3325	.3225
4	.5593	.1414	.0324	44	9.0714	.3411	.3287
5	.7007	.1425	.0405	45	9.4125	.3499	.3350
6	.8432	.1437	.0485	46	9.7624	.3588	.3411
7	.9869	.1453	.0566	47	10.1212	.3680	.3472
8	1.1322	.1469	.0646	48	10.4892	.3772	.3531
9	1.2791	.1488	.0727	49	10.8664	.3866	.3589
10	1.4279	.1510	.0807	50	11.2530	.3962	.3647
11	1.5789	.1533	.0887	51	11.6492	.4058	.3704
12	1.7322	.1558	.0966	52	12.0550	.4158	.3760
13	1.8880	.1585	.1046	53	12.4708	.4257	.3815
14	2.0465	.1615	.1125	54	12.8965	.4359	.3869
15	2.2080	.1647	.1204	55	13.3324	.4461	.3922
16	2.3727	.1680	.1282	56	13.7785	.4566	.3975
17	2.5407	.1716	.1361	57	14.2351	.4671	.4025
18	2.7123	.1753	.1439	58	14.7022	.4778	.4076
19	2.8876	.1793	.1517	59	15.1800	.4887	.4125
20	3.0669	.1835	.1594	60	15.6687	.4995	.4172
21	3.2504	.1879	.1671	61	16.1682	.5106	.4220
22	3.4383	.1925	.1747	62	16.6788	.5218	.4266
23	3.6308	.1972	.1823	63	17.2006	.5332	.4311
24	3.8280	.2023	.1899	64	17.7338	.5445	.4354
25	4.0303	.2074	.1974	65	18.2783	.5560	.4397
26	4.2377	.2127	.2048	66	18.8343	.5677	.4440
27	4.4504	.2184	.2123	67	19.4020	.5794	.4480
28	4.6688	.2241	.2196	68	19.9814	.5913	.4520
29	4.8929	.2300	.2269	69	20.5727	.6032	.4558
30	5.1229	.2362	.2342	70	21.1759	.6153	.4596
31	5.3591	.2425	.2413	71	21.7912	.6274	.4632
32	5.6016	.2490	.2484	72	22.4186	.6397	.4667
33	5.8506	.2557	.2555	73	23.0583	.6519	.4700
34	6.1063	.2626	.2625	74	23.7102	.6644	.4734
35	6.3689	.2696	.2695	75	24.3746	.6769	.4765
36	6.6385	.2769	.2764	76	25.0515	.6894	.4795
37	6.9154	.2844	.2832	77	25.7409	.7021	.4825
38	7.1998	.2919	.2899	78	26.4430	.7148	.4853
39	7.4917	.2997	.2966	79	27.1578	.7276	.4880
40	7.7914	.3076	.3032	80	27.8854	.7405	.4905

$e = 34^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	27.8854	.7405	.4905	120	67.8854	1.2724	.4905
81	28.6259	.7533	.4929	121	69.1578	1.2852	.4880
82	29.3792	.7664	.4953	122	70.4430	1.2979	.4853
83	30.1456	.7794	.4975	123	71.7409	1.3106	.4825
84	30.9250	.7925	.4996	124	73.0515	1.3231	.4795
85	31.7175	.8056	.5015	125	74.3746	1.3356	.4765
86	32.5231	.8189	.5034	126	75.7102	1.3481	.4734
87	33.3420	.8321	.5050	127	77.0583	1.3603	.4700
88	34.1741	.8453	.5066	128	78.4186	1.3726	.4667
89	35.0194	.8587	.5081	129	79.7912	1.3847	.4632
90	35.8781	.8720	.5094	130	81.1759	1.3968	.4596
91	36.7501	.8854	.5107	131	82.5727	1.4087	.4558
92	37.6355	.8989	.5118	132	83.9814	1.4206	.4520
93	38.5344	.9122	.5126	133	85.4020	1.4323	.4480
94	39.4466	.9258	.5135	134	86.8343	1.4440	.4440
95	40.3724	.9392	.5142	135	88.2783	1.4555	.4397
96	41.3116	.9527	.5148	136	89.7338	1.4668	.4354
97	42.2643	.9662	.5152	137	91.2006	1.4782	.4311
98	43.2305	.9797	.5155	138	92.6788	1.4894	.4266
99	44.2102	.9933	.5157	139	94.1682	1.5005	.4220
100	45.2035	1.0067	.5157	140	95.6687	1.5113	.4172
101	46.2102	1.0203	.5157	141	97.1800	1.5222	.4125
102	47.2305	1.0338	.5155	142	98.7022	1.5329	.4076
103	48.2643	1.0473	.5152	143	100.2351	1.5434	.4025
104	49.3116	1.0608	.5148	144	101.7785	1.5539	.3975
105	50.3724	1.0742	.5142	145	103.3324	1.5641	.3922
106	51.4466	1.0878	.5135	146	104.8965	1.5743	.3869
107	52.5344	1.1011	.5126	147	106.4708	1.5842	.3815
108	53.6355	1.1146	.5118	148	108.0550	1.5942	.3760
109	54.7501	1.1280	.5107	149	109.6492	1.6038	.3704
110	55.8781	1.1413	.5094	150	111.2530	1.6134	.3647
111	57.0194	1.1547	.5081	151	112.8664	1.6228	.3589
112	58.1741	1.1679	.5066	152	114.4892	1.6320	.3531
113	59.3420	1.1811	.5050	153	116.1212	1.6412	.3472
114	60.5231	1.1944	.5034	154	117.7624	1.6501	.3411
115	61.7175	1.2075	.5015	155	119.4125	1.6589	.3350
116	62.9250	1.2206	.4996	156	121.0714	1.6675	.3287
117	64.1456	1.2336	.4975	157	122.7389	1.6759	.3225
118	65.3792	1.2467	.4953	158	124.4148	1.6842	.3161
119	66.6259	1.2595	.4929	159	126.0990	1.6924	.3097
120	67.8854	1.2724	.4905	160	127.7914	1.7003	.3032

$e = 34^c$				$e = 35^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	127.7914	1.7003	.3032	0	.0000	.1474	.0000
161	129.4917	1.7081	.2966	1	.1474	.1476	.0083
162	131.1998	1.7156	.2899	2	.2950	.1480	.0166
163	132.9154	1.7231	.2832	3	.4430	.1487	.0250
164	134.6385	1.7304	.2764	4	.5917	.1495	.0332
165	136.3689	1.7374	.2695	5	.7412	.1505	.0415
166	138.1063	1.7443	.2625	6	.8917	.1518	.0498
167	139.8506	1.7510	.2555	7	1.0435	.1533	.0581
168	141.6016	1.7575	.2484	8	1.1968	.1550	.0663
169	143.3591	1.7638	.2413	9	1.3518	.1568	.0745
170	145.1229	1.7700	.2342	10	1.5086	.1590	.0828
171	146.8929	1.7759	.2269	11	1.6676	.1612	.0909
172	148.6688	1.7816	.2196	12	1.8288	.1638	.0992
173	150.4504	1.7873	.2123	13	1.9926	.1664	.1073
174	152.2377	1.7926	.2048	14	2.1590	.1694	.1155
175	154.0303	1.7977	.1974	15	2.3284	.1725	.1235
176	155.8280	1.8028	.1899	16	2.5009	.1759	.1316
177	157.6308	1.8075	.1823	17	2.6768	.1794	.1396
178	159.4383	1.8121	.1747	18	2.8562	.1831	.1476
179	161.2504	1.8165	.1671	19	3.0393	.1870	.1556
180	163.0669	1.8207	.1594	20	3.2263	.1912	.1635
181	164.8876	1.8247	.1517	21	3.4175	.1955	.1714
182	166.7123	1.8284	.1439	22	3.6130	.2001	.1793
183	168.5407	1.8320	.1361	23	3.8131	.2048	.1871
184	170.3727	1.8353	.1282	24	4.0179	.2098	.1948
185	172.2080	1.8385	.1204	25	4.2277	.2148	.2025
186	174.0465	1.8415	.1125	26	4.4425	.2202	.2102
187	175.8880	1.8442	.1046	27	4.6627	.2257	.2178
188	177.7322	1.8467	.0966	28	4.8884	.2314	.2253
189	179.5789	1.8490	.0887	29	5.1198	.2373	.2328
190	181.4279	1.8512	.0807	30	5.3571	.2433	.2402
191	183.2791	1.8531	.0727	31	5.6004	.2496	.2476
192	185.1322	1.8547	.0646	32	5.8500	.2561	.2550
193	186.9869	1.8563	.0566	33	6.1061	.2627	.2622
194	188.8432	1.8575	.0485	34	6.3688	.2696	.2694
195	190.7007	1.8586	.0405	35	6.6384	.2765	.2765
196	192.5593	1.8594	.0324	36	6.9149	.2837	.2836
197	194.4187	1.8601	.0243	37	7.1986	.2911	.2906
198	196.2788	1.8605	.0162	38	7.4897	.2986	.2974
199	198.1393	1.8607	.0081	39	7.7883	.3063	.3043
200	200.0000	1.8607	.0000	40	8.0946	.3141	.3110

$e = 35^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	8.0946	.3141	.3110	80	28.3759	.7429	.5033
41	8.4087	.3222	.3178	81	29.1188	.7557	.5058
42	8.7309	.3305	.3244	82	29.8745	.7686	.5082
43	9.0614	.3387	.3308	83	30.6431	.7815	.5104
44	9.4001	.3474	.3374	84	31.4246	.7944	.5125
45	9.7475	.3560	.3436	85	32.2190	.8075	.5146
46	10.1035	.3649	.3499	86	33.0265	.8205	.5164
47	10.4684	.3739	.3561	87	33.8470	.8337	.5182
48	10.8423	.3830	.3622	88	34.6807	.8468	.5198
49	11.2253	.3924	.3683	89	35.5275	.8600	.5213
50	11.6177	.4019	.3742	90	36.3875	.8733	.5227
51	12.0196	.4114	.3800	91	37.2608	.8865	.5239
52	12.4310	.4213	.3858	92	38.1473	.8997	.5250
53	12.8523	.4311	.3914	93	39.0470	.9131	.5260
54	13.2834	.4412	.3969	94	39.9601	.9265	.5269
55	13.7246	.4514	.4024	95	40.8866	.9398	.5275
56	14.1760	.4616	.4077	96	41.8264	.9531	.5281
57	14.6376	.4722	.4130	97	42.7795	.9665	.5286
58	15.1098	.4827	.4181	98	43.7460	.9799	.5289
59	15.5925	.4934	.4232	99	44.7259	.9933	.5291
60	16.0859	.5043	.4282	100	45.7192	1.0067	.5292
61	16.5902	.5152	.4330	101	46.7259	1.0201	.5291
62	17.1054	.5263	.4377	102	47.7460	1.0335	.5289
63	17.6317	.5375	.4423	103	48.7795	1.0469	.5286
64	18.1692	.5488	.4468	104	49.8264	1.0602	.5281
65	18.7180	.5603	.4512	105	50.8866	1.0735	.5275
66	19.2783	.5717	.4555	106	51.9601	1.0869	.5269
67	19.8500	.5834	.4597	107	53.0470	1.1003	.5260
68	20.4334	.5951	.4637	108	54.1473	1.1135	.5250
69	21.0285	.6070	.4677	109	55.2608	1.1267	.5239
70	21.6355	.6189	.4715	110	56.3875	1.1400	.5227
71	22.2544	.6309	.4752	111	57.5275	1.1532	.5213
72	22.8853	.6430	.4788	112	58.6807	1.1663	.5198
73	23.5283	.6553	.4823	113	59.8470	1.1795	.5182
74	24.1836	.6675	.4856	114	61.0265	1.1925	.5164
75	24.8511	.6799	.4889	115	62.2190	1.2056	.5146
76	25.5310	.6924	.4920	116	63.4246	1.2185	.5125
77	26.2234	.7049	.4950	117	64.6431	1.2314	.5104
78	26.9283	.7175	.4979	118	65.8745	1.2443	.5082
79	27.6458	.7301	.5006	119	67.1188	1.2571	.5058
80	28.3759	.7429	.5033	120	68.3759	1.2699	.5033

$e = 35^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	68.3759	1.2699	.5033	160	128.0946	1.6937	.3110
121	69.6458	1.2825	.5006	161	129.7883	1.7014	.3043
122	70.9283	1.2951	.4979	162	131.4897	1.7089	.2974
123	72.2234	1.3076	.4950	163	133.1986	1.7163	.2906
124	73.5310	1.3201	.4920	164	134.9149	1.7235	.2836
125	74.8511	1.3325	.4889	165	136.6384	1.7304	.2765
126	76.1836	1.3447	.4856	166	138.3688	1.7373	.2694
127	77.5283	1.3570	.4823	167	140.1061	1.7439	.2622
128	78.8853	1.3691	.4788	168	141.8500	1.7504	.2550
129	80.2544	1.3811	.4752	169	143.6004	1.7567	.2476
130	81.6355	1.3930	.4715	170	145.3571	1.7627	.2402
131	83.0285	1.4049	.4677	171	147.1198	1.7686	.2328
132	84.4334	1.4166	.4637	172	148.8884	1.7743	.2253
133	85.8500	1.4283	.4597	173	150.6627	1.7798	.2178
134	87.2783	1.4397	.4555	174	152.4425	1.7852	.2102
135	88.7180	1.4512	.4512	175	154.2277	1.7902	.2025
136	90.1692	1.4625	.4468	176	156.0179	1.7952	.1948
137	91.6317	1.4737	.4423	177	157.8131	1.7999	.1871
138	93.1054	1.4848	.4377	178	159.6130	1.8045	.1793
139	94.5902	1.4957	.4330	179	161.4175	1.8088	.1714
140	96.0859	1.5066	.4282	180	163.2263	1.8130	.1635
141	97.5925	1.5173	.4232	181	165.0393	1.8169	.1556
142	99.1098	1.5278	.4181	182	166.8562	1.8206	.1476
143	100.6376	1.5384	.4130	183	168.6768	1.8241	.1396
144	102.1760	1.5486	.4077	184	170.5009	1.8275	.1316
145	103.7246	1.5588	.4024	185	172.3284	1.8306	.1235
146	105.2834	1.5689	.3969	186	174.1590	1.8336	.1155
147	106.8523	1.5787	.3914	187	175.9926	1.8362	.1073
148	108.4310	1.5886	.3858	188	177.8288	1.8388	.0992
149	110.0196	1.5981	.3800	189	179.6676	1.8410	.0909
150	111.6177	1.6076	.3742	190	181.5086	1.8432	.0828
151	113.2253	1.6170	.3683	191	183.3518	1.8450	.0745
152	114.8423	1.6261	.3622	192	185.1968	1.8467	.0663
153	116.4684	1.6351	.3561	193	187.0435	1.8482	.0581
154	118.1035	1.6440	.3499	194	188.8917	1.8495	.0498
155	119.7475	1.6526	.3436	195	190.7412	1.8505	.0415
156	121.4001	1.6613	.3374	196	192.5917	1.8513	.0332
157	123.0614	1.6695	.3308	197	194.4430	1.8520	.0250
158	124.7309	1.6778	.3244	198	196.2950	1.8524	.0166
159	126.4087	1.6859	.3178	199	198.1474	1.8526	.0083
160	128.0946	1.6937	.3110	200	200.0000	1.8526	.0000

$e = 36^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1557	.0000	40	8.4056	.3209	.3188
1	.1557	.1559	.0085	41	8.7265	.3288	.3257
2	.3116	.1564	.0171	42	9.0553	.3369	.3324
3	.4680	.1569	.0255	43	9.3922	.3453	.3392
4	.6249	.1578	.0341	44	9.7375	.3536	.3457
5	.7827	.1588	.0426	45	10.0911	.3623	.3523
6	.9415	.1601	.0511	46	10.4534	.3711	.3588
7	1.1016	.1615	.0595	47	10.8245	.3800	.3651
8	1.2631	.1632	.0680	48	11.2045	.3891	.3713
9	1.4263	.1651	.0765	49	11.5936	.3983	.3775
10	1.5914	.1671	.0849	50	11.9919	.4077	.3835
11	1.7585	.1695	.0933	51	12.3996	.4172	.3895
12	1.9280	.1719	.1016	52	12.8168	.4269	.3954
13	2.0999	.1746	.1100	53	13.2437	.4366	.4012
14	2.2745	.1774	.1183	54	13.6803	.4467	.4069
15	2.4519	.1806	.1267	55	14.1270	.4567	.4124
16	2.6325	.1839	.1349	56	14.5837	.4669	.4179
17	2.8164	.1874	.1431	57	15.0506	.4773	.4234
18	3.0038	.1911	.1513	58	15.5279	.4878	.4286
19	3.1949	.1949	.1595	59	16.0157	.4984	.4338
20	3.3898	.1991	.1677	60	16.5141	.5091	.4388
21	3.5889	.2034	.1757	61	17.0232	.5199	.4437
22	3.7923	.2079	.1837	62	17.5431	.5309	.4486
23	4.0002	.2125	.1917	63	18.0740	.5420	.4534
24	4.2127	.2175	.1997	64	18.6160	.5532	.4580
25	4.4302	.2225	.2075	65	19.1692	.5646	.4625
26	4.6527	.2278	.2154	66	19.7338	.5759	.4668
27	4.8805	.2332	.2232	67	20.3097	.5874	.4712
28	5.1137	.2389	.2309	68	20.8971	.5991	.4754
29	5.3526	.2447	.2386	69	21.4962	.6108	.4794
30	5.5973	.2507	.2463	70	22.1070	.6226	.4833
31	5.8480	.2570	.2539	71	22.7296	.6345	.4871
32	6.1050	.2633	.2613	72	23.3641	.6465	.4908
33	6.3683	.2699	.2688	73	24.0106	.6586	.4944
34	6.6382	.2767	.2761	74	24.6692	.6708	.4979
35	6.9149	.2836	.2834	75	25.3400	.6830	.5012
36	7.1985	.2907	.2906	76	26.0230	.6954	.5044
37	7.4892	.2979	.2978	77	26.7184	.7078	.5074
38	7.7871	.3055	.3049	78	27.4262	.7202	.5103
39	8.0926	.3130	.3119	79	28.1464	.7328	.5132
40	8.4056	.3209	.3188	80	28.8792	.7454	.5159



$e = 36^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	28.8792	.7454	.5159	120	68.8792	1.2672	.5159
81	29.6246	.7581	.5185	121	70.1464	1.2798	.5132
82	30.3827	.7708	.5209	122	71.4262	1.2922	.5103
83	31.1535	.7836	.5232	123	72.7184	1.3046	.5074
84	31.9371	.7965	.5254	124	74.0230	1.3170	.5044
85	32.7336	.8093	.5274	125	75.3400	1.3292	.5012
86	33.5429	.8223	.5294	126	76.6692	1.3414	.4979
87	34.3652	.8353	.5312	127	78.0106	1.3535	.4944
88	35.2005	.8483	.5328	128	79.3641	1.3655	.4908
89	36.0488	.8614	.5344	129	80.7296	1.3774	.4871
90	36.9102	.8745	.5357	130	82.1070	1.3892	.4833
91	37.7847	.8876	.5370	131	83.4962	1.4009	.4794
92	38.6723	.9007	.5381	132	84.8971	1.4126	.4754
93	39.5730	.9140	.5392	133	86.3097	1.4241	.4712
94	40.4870	.9271	.5400	134	87.7338	1.4354	.4668
95	41.4141	.9404	.5408	135	89.1692	1.4468	.4625
96	42.3545	.9536	.5413	136	90.6160	1.4580	.4580
97	43.3081	.9668	.5418	137	92.0740	1.4691	.4534
98	44.2749	.9801	.5422	138	93.5431	1.4801	.4486
99	45.2550	.9934	.5424	139	95.0232	1.4909	.4437
100	46.2484	1.0066	.5425	140	96.5141	1.5016	.4388
101	47.2550	1.0199	.5424	141	98.0157	1.5122	.4338
102	48.2749	1.0332	.5422	142	99.5279	1.5227	.4286
103	49.3081	1.0464	.5418	143	101.0506	1.5331	.4234
104	50.3545	1.0596	.5413	144	102.5837	1.5433	.4179
105	51.4141	1.0729	.5408	145	104.1270	1.5533	.4124
106	52.4870	1.0860	.5400	146	105.6803	1.5634	.4069
107	53.5730	1.0993	.5392	147	107.2437	1.5731	.4012
108	54.6723	1.1124	.5381	148	108.8168	1.5828	.3954
109	55.7847	1.1255	.5370	149	110.3996	1.5923	.3895
110	56.9102	1.1386	.5357	150	111.9919	1.6017	.3835
111	58.0488	1.1517	.5344	151	113.5936	1.6109	.3775
112	59.2005	1.1647	.5328	152	115.2045	1.6200	.3713
113	60.3652	1.1777	.5312	153	116.8245	1.6289	.3651
114	61.5429	1.1907	.5294	154	118.4534	1.6377	.3588
115	62.7336	1.2035	.5274	155	120.0911	1.6464	.3523
116	63.9371	1.2164	.5254	156	121.7375	1.6547	.3457
117	65.1535	1.2292	.5232	157	123.3922	1.6631	.3392
118	66.3827	1.2419	.5209	158	125.0553	1.6712	.3324
119	67.6246	1.2546	.5185	159	126.7265	1.6791	.3257
120	68.8792	1.2672	.5159	160	128.4056	1.6870	.3188

$e = 36^c$				$e = 37^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	128.4056	1.6870	.3188	0	.0000	.1642	.0000
161	130.0926	1.6945	.3119	1	.1642	.1645	.0088
162	131.7871	1.7021	.3049	2	.3287	.1648	.0174
163	133.4892	1.7093	.2978	3	.4935	.1655	.0262
164	135.1985	1.7164	.2906	4	.6590	.1663	.0349
165	136.9149	1.7233	.2834	5	.8253	.1673	.0435
166	138.6382	1.7301	.2761	6	.9926	.1685	.0523
167	140.3683	1.7367	.2688	7	1.1611	.1700	.0610
168	142.1050	1.7430	.2613	8	1.3311	.1717	.0697
169	143.8480	1.7493	.2539	9	1.5028	.1735	.0782
170	145.5973	1.7553	.2463	10	1.6763	.1755	.0869
171	147.3526	1.7611	.2386	11	1.8518	.1778	.0955
172	149.1137	1.7668	.2309	12	2.0296	.1803	.1041
173	150.8805	1.7722	.2232	13	2.2099	.1829	.1126
174	152.6527	1.7775	.2154	14	2.3928	.1858	.1212
175	154.4302	1.7825	.2075	15	2.5786	.1888	.1297
176	156.2127	1.7875	.1997	16	2.7674	.1921	.1382
177	158.0002	1.7921	.1917	17	2.9595	.1956	.1466
178	159.7923	1.7966	.1837	18	3.1551	.1993	.1550
179	161.5889	1.8009	.1757	19	3.3544	.2031	.1633
180	163.3898	1.8051	.1677	20	3.5575	.2071	.1716
181	165.1949	1.8089	.1595	21	3.7646	.2114	.1800
182	167.0038	1.8126	.1513	22	3.9760	.2159	.1882
183	168.8164	1.8161	.1431	23	4.1919	.2205	.1964
184	170.6325	1.8194	.1349	24	4.4124	.2253	.2045
185	172.4519	1.8226	.1267	25	4.6377	.2304	.2126
186	174.2745	1.8254	.1183	26	4.8681	.2356	.2206
187	176.0999	1.8281	.1100	27	5.1037	.2409	.2286
188	177.9280	1.8305	.1016	28	5.3446	.2466	.2366
189	179.7585	1.8329	.0933	29	5.5912	.2524	.2444
190	181.5914	1.8349	.0849	30	5.8436	.2583	.2522
191	183.4263	1.8368	.0765	31	6.1019	.2644	.2599
192	185.2631	1.8385	.0680	32	6.3663	.2708	.2676
193	187.1016	1.8399	.0595	33	6.6371	.2772	.2752
194	188.9415	1.8412	.0511	34	6.9143	.2840	.2828
195	190.7827	1.8422	.0426	35	7.1983	.2908	.2903
196	192.6249	1.8431	.0341	36	7.4891	.2979	.2977
197	194.4680	1.8436	.0255	37	7.7870	.3050	.3050
198	196.3116	1.8441	.0171	38	8.0920	.3125	.3123
199	198.1557	1.8443	.0085	39	8.4045	.3199	.3194
200	200.0000	1.8443	.0000	40	8.7244	.3278	.3266

$e = 37^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	8.7244	.3278	.3266	80	29.3951	.7480	.5284
41	9.0522	.3355	.3335	81	30.1431	.7605	.5310
42	9.3877	.3437	.3405	82	30.9036	.7731	.5335
43	9.7314	.3518	.3473	83	31.6767	.7858	.5359
44	10.0832	.3602	.3541	84	32.4625	.7985	.5381
45	10.4434	.3688	.3608	85	33.2610	.8113	.5402
46	10.8122	.3774	.3674	86	34.0723	.8241	.5422
47	11.1896	.3862	.3739	87	34.8964	.8369	.5440
48	11.5758	.3953	.3803	88	35.7333	.8499	.5458
49	11.9711	.4043	.3866	89	36.5832	.8627	.5473
50	12.3754	.4137	.3929	90	37.4459	.8758	.5488
51	12.7891	.4231	.3990	91	38.3217	.8887	.5500
52	13.2122	.4327	.4050	92	39.2104	.9018	.5512
53	13.6449	.4423	.4109	93	40.1122	.9148	.5522
54	14.0872	.4522	.4168	94	41.0270	.9279	.5531
55	14.5394	.4622	.4225	95	41.9549	.9409	.5538
56	15.0016	.4724	.4281	96	42.8958	.9541	.5545
57	15.4740	.4825	.4335	97	43.8499	.9672	.5550
58	15.9565	.4930	.4390	98	44.8171	.9803	.5553
59	16.4495	.5034	.4442	99	45.7974	.9935	.5555
60	16.9529	.5140	.4495	100	46.7909	1.0065	.5555
61	17.4669	.5248	.4546	101	47.7974	1.0197	.5555
62	17.9917	.5357	.4595	102	48.8171	1.0328	.5553
63	18.5274	.5466	.4643	103	49.8499	1.0459	.5550
64	19.0740	.5577	.4691	104	50.8958	1.0591	.5545
65	19.6317	.5689	.4737	105	51.9549	1.0721	.5538
66	20.2006	.5803	.4782	106	53.0270	1.0852	.5531
67	20.7809	.5916	.4825	107	54.1122	1.0982	.5522
68	21.3725	.6031	.4868	108	55.2104	1.1113	.5512
69	21.9756	.6147	.4910	109	56.3217	1.1242	.5500
70	22.5903	.6264	.4950	110	57.4459	1.1373	.5488
71	23.2167	.6382	.4989	111	58.5832	1.1501	.5473
72	23.8549	.6501	.5027	112	59.7333	1.1631	.5458
73	24.5050	.6621	.5064	113	60.8964	1.1759	.5440
74	25.1671	.6741	.5098	114	62.0723	1.1887	.5422
75	25.8412	.6862	.5132	115	63.2610	1.2015	.5402
76	26.5274	.6984	.5165	116	64.4625	1.2142	.5381
77	27.2258	.7107	.5197	117	65.6767	1.2269	.5359
78	27.9365	.7231	.5228	118	66.9036	1.2395	.5335
79	28.6596	.7355	.5256	119	68.1431	1.2520	.5310
80	29.3951	.7480	.5284	120	69.3951	1.2645	.5284

$e = 37^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	69.3951	1.2645	.5284	160	128.7244	1.6801	.3266
121	70.6596	1.2769	.5256	161	130.4045	1.6875	.3194
122	71.9365	1.2893	.5228	162	132.0920	1.6950	.3123
123	73.2258	1.3016	.5197	163	133.7870	1.7021	.3050
124	74.5274	1.3138	.5165	164	135.4891	1.7092	.2977
125	75.8412	1.3259	.5132	165	137.1983	1.7160	.2903
126	77.1671	1.3379	.5098	166	138.9143	1.7228	.2828
127	78.5050	1.3499	.5064	167	140.6371	1.7292	.2752
128	79.8549	1.3618	.5027	168	142.3663	1.7356	.2676
129	81.2167	1.3736	.4989	169	144.1019	1.7417	.2599
130	82.5903	1.3853	.4950	170	145.8436	1.7476	.2522
131	83.9756	1.3969	.4910	171	147.5912	1.7534	.2444
132	85.3725	1.4084	.4868	172	149.3446	1.7591	.2366
133	86.7809	1.4197	.4825	173	151.1037	1.7644	.2286
134	88.2006	1.4311	.4782	174	152.8681	1.7696	.2206
135	89.6317	1.4423	.4737	175	154.6377	1.7747	.2126
136	91.0740	1.4534	.4691	176	156.4124	1.7795	.2045
137	92.5274	1.4643	.4643	177	158.1919	1.7841	.1964
138	93.9917	1.4752	.4595	178	159.9760	1.7886	.1882
139	95.4669	1.4860	.4546	179	161.7646	1.7929	.1800
140	96.9529	1.4966	.4495	180	163.5575	1.7969	.1716
141	98.4495	1.5070	.4442	181	165.3544	1.8007	.1633
142	99.9565	1.5175	.4390	182	167.1551	1.8044	.1550
143	101.4740	1.5276	.4335	183	168.9595	1.8079	.1466
144	103.0016	1.5378	.4281	184	170.7674	1.8112	.1382
145	104.5394	1.5478	.4225	185	172.5786	1.8142	.1297
146	106.0872	1.5577	.4168	186	174.3928	1.8171	.1212
147	107.6449	1.5673	.4109	187	176.2099	1.8197	.1126
148	109.2122	1.5769	.4050	188	178.0296	1.8222	.1041
149	110.7891	1.5863	.3990	189	179.8518	1.8245	.0955
150	112.3754	1.5957	.3929	190	181.6763	1.8265	.0869
151	113.9711	1.6047	.3866	191	183.5028	1.8283	.0782
152	115.5758	1.6138	.3803	192	185.3311	1.8300	.0697
153	117.1896	1.6226	.3739	193	187.1611	1.8315	.0610
154	118.8122	1.6312	.3674	194	188.9926	1.8327	.0523
155	120.4434	1.6398	.3608	195	190.8253	1.8337	.0435
156	122.0832	1.6482	.3541	196	192.6590	1.8345	.0349
157	123.7314	1.6563	.3473	197	194.4935	1.8352	.0262
158	125.3877	1.6645	.3405	198	196.3287	1.8355	.0174
159	127.0522	1.6722	.3335	199	198.1642	1.8358	.0088
160	128.7244	1.6801	.3266	200	200.0000	1.8358	.0000

$e = 38^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1730	.0000	40	9.0510	.3347	.3342
1	.1730	.1731	.0089	41	9.3857	.3425	.3414
2	.3461	.1736	.0179	42	9.7282	.3505	.3485
3	.5197	.1742	.0268	43	10.0787	.3586	.3555
4	.6939	.1749	.0357	44	10.4373	.3669	.3625
5	.8688	.1761	.0447	45	10.8042	.3754	.3693
6	1.0449	.1772	.0535	46	11.1796	.3839	.3760
7	1.2221	.1787	.0624	47	11.5635	.3926	.3826
8	1.4008	.1802	.0712	48	11.9561	.4016	.3892
9	1.5810	.1822	.0802	49	12.3577	.4106	.3957
10	1.7632	.1841	.0889	50	12.7683	.4198	.4020
11	1.9473	.1864	.0978	51	13.1881	.4291	.4083
12	2.1337	.1888	.1065	52	13.6172	.4386	.4144
13	2.3225	.1915	.1153	53	14.0558	.4482	.4205
14	2.5140	.1943	.1240	54	14.5040	.4579	.4264
15	2.7083	.1973	.1327	55	14.9619	.4678	.4323
16	2.9056	.2005	.1414	56	15.4297	.4778	.4381
17	3.1061	.2040	.1501	57	15.9075	.4880	.4438
18	3.3101	.2076	.1586	58	16.3955	.4982	.4493
19	3.5177	.2114	.1672	59	16.8937	.5087	.4547
20	3.7291	.2155	.1757	60	17.4024	.5191	.4599
21	3.9446	.2196	.1842	61	17.9215	.5297	.4651
22	4.1642	.2241	.1926	62	18.4512	.5405	.4703
23	4.3883	.2286	.2010	63	18.9917	.5514	.4752
24	4.6169	.2334	.2093	64	19.5431	.5623	.4801
25	4.8503	.2384	.2176	65	20.1054	.5734	.4848
26	5.0887	.2436	.2258	66	20.6788	.5846	.4894
27	5.3323	.2489	.2340	67	21.2634	.5959	.4939
28	5.5812	.2544	.2421	68	21.8593	.6073	.4982
29	5.8356	.2602	.2502	69	22.4666	.6187	.5024
30	6.0958	.2660	.2581	70	23.0853	.6303	.5066
31	6.3618	.2721	.2661	71	23.7156	.6420	.5106
32	6.6339	.2784	.2739	72	24.3576	.6538	.5145
33	6.9123	.2848	.2817	73	25.0114	.6655	.5181
34	7.1971	.2915	.2895	74	25.6769	.6775	.5218
35	7.4886	.2982	.2970	75	26.3544	.6895	.5253
36	7.7868	.3052	.3046	76	27.0439	.7016	.5287
37	8.0920	.3123	.3121	77	27.7455	.7138	.5319
38	8.4043	.3196	.3196	78	28.4593	.7259	.5349
39	8.7239	.3271	.3269	79	29.1852	.7383	.5379
40	9.0510	.3347	.3342	80	29.9235	.7506	.5407

$e = 38^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	29.9235	.7506	.5407	120	69.9235	1.2617	.5407
81	30.6741	.7630	.5434	121	71.1852	1.2741	.5379
82	31.4371	.7755	.5460	122	72.4593	1.2862	.5349
83	32.2126	.7880	.5484	123	73.7455	1.2984	.5319
84	33.0006	.8006	.5507	124	75.0439	1.3105	.5287
85	33.8012	.8133	.5529	125	76.3544	1.3225	.5253
86	34.6145	.8259	.5548	126	77.6769	1.3345	.5218
87	35.4404	.8387	.5568	127	79.0114	1.3462	.5181
88	36.2791	.8514	.5584	128	80.3576	1.3580	.5145
89	37.1305	.8642	.5601	129	81.7156	1.3697	.5106
90	37.9947	.8770	.5615	130	83.0853	1.3813	.5066
91	38.8717	.8899	.5629	131	84.4666	1.3927	.5024
92	39.7616	.9028	.5641	132	85.8593	1.4041	.4982
93	40.6644	.9157	.5651	133	87.2634	1.4154	.4939
94	41.5801	.9286	.5660	134	88.6788	1.4266	.4894
95	42.5087	.9416	.5668	135	90.1054	1.4377	.4848
96	43.4503	.9546	.5674	136	91.5431	1.4486	.4801
97	44.4049	.9675	.5679	137	92.9917	1.4595	.4752
98	45.3724	.9805	.5683	138	94.4512	1.4703	.4703
99	46.3529	.9935	.5685	139	95.9215	1.4809	.4651
100	47.3464	1.0065	.5686	140	97.4024	1.4913	.4599
101	48.3529	1.0195	.5685	141	98.8937	1.5018	.4547
102	49.3724	1.0325	.5683	142	100.3955	1.5120	.4493
103	50.4049	1.0454	.5679	143	101.9075	1.5222	.4438
104	51.4503	1.0584	.5674	144	103.4297	1.5322	.4381
105	52.5087	1.0714	.5668	145	104.9619	1.5421	.4323
106	53.5801	1.0843	.5660	146	106.5040	1.5518	.4264
107	54.6644	1.0972	.5651	147	108.0558	1.5614	.4205
108	55.7616	1.1101	.5641	148	109.6172	1.5709	.4144
109	56.8717	1.1230	.5629	149	111.1881	1.5802	.4083
110	57.9947	1.1358	.5615	150	112.7683	1.5894	.4020
111	59.1305	1.1486	.5601	151	114.3577	1.5984	.3957
112	60.2791	1.1613	.5584	152	115.9561	1.6074	.3892
113	61.4404	1.1741	.5568	153	117.5635	1.6161	.3826
114	62.6145	1.1867	.5548	154	119.1796	1.6246	.3760
115	63.8012	1.1994	.5529	155	120.8042	1.6331	.3693
116	65.0006	1.2120	.5507	156	122.4373	1.6414	.3625
117	66.2126	1.2245	.5484	157	124.0787	1.6495	.3555
118	67.4371	1.2370	.5460	158	125.7282	1.6575	.3485
119	68.6741	1.2494	.5434	159	127.3857	1.6653	.3414
120	69.9235	1.2617	.5407	160	129.0510	1.6729	.3342

$e = 38^c$				$e = 39^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	129.0510	1.6729	.3342	0	.0000	.1819	.0000
161	130.7239	1.6804	.3269	1	.1819	.1821	.0091
162	132.4043	1.6877	.3196	2	.3640	.1825	.0182
163	134.0920	1.6948	.3121	3	.5465	.1831	.0273
164	135.7868	1.7018	.3046	4	.7296	.1839	.0365
165	137.4886	1.7085	.2970	5	.9135	.1849	.0456
166	139.1971	1.7152	.2895	6	1.0984	.1861	.0547
167	140.9123	1.7216	.2817	7	1.2845	.1875	.0638
168	142.6339	1.7279	.2739	8	1.4720	.1892	.0729
169	144.3618	1.7340	.2661	9	1.6612	.1909	.0819
170	146.0958	1.7398	.2581	10	1.8521	.1930	.0910
171	147.8356	1.7456	.2502	11	2.0451	.1951	.0999
172	149.5812	1.7511	.2421	12	2.2402	.1976	.1090
173	151.3323	1.7564	.2340	13	2.4378	.2002	.1179
174	153.0887	1.7616	.2258	14	2.6380	.2030	.1268
175	154.8503	1.7666	.2176	15	2.8410	.2060	.1357
176	156.6169	1.7714	.2093	16	3.0470	.2092	.1446
177	158.3883	1.7759	.2010	17	3.2562	.2125	.1534
178	160.1642	1.7804	.1926	18	3.4687	.2162	.1622
179	161.9446	1.7845	.1842	19	3.6849	.2199	.1710
180	163.7291	1.7886	.1757	20	3.9048	.2240	.1797
181	165.5177	1.7924	.1672	21	4.1288	.2280	.1883
182	167.3101	1.7960	.1586	22	4.3568	.2325	.1970
183	169.1061	1.7995	.1501	23	4.5893	.2369	.2055
184	170.9056	1.8027	.1414	24	4.8262	.2417	.2141
185	172.7083	1.8057	.1327	25	5.0679	.2466	.2225
186	174.5140	1.8085	.1240	26	5.3145	.2518	.2309
187	176.3225	1.8112	.1153	27	5.5663	.2570	.2392
188	178.1337	1.8136	.1065	28	5.8233	.2625	.2475
189	179.9473	1.8159	.0978	29	6.0858	.2681	.2557
190	181.7632	1.8178	.0889	30	6.3539	.2740	.2639
191	183.5810	1.8198	.0802	31	6.6279	.2799	.2720
192	185.4008	1.8213	.0712	32	6.9078	.2862	.2801
193	187.2221	1.8228	.0624	33	7.1940	.2926	.2881
194	189.0449	1.8239	.0535	34	7.4866	.2990	.2959
195	190.8688	1.8251	.0447	35	7.7856	.3058	.3038
196	192.6939	1.8258	.0357	36	8.0914	.3127	.3116
197	194.5197	1.8264	.0268	37	8.4041	.3198	.3192
198	196.3461	1.8269	.0179	38	8.7239	.3269	.3268
199	198.1730	1.8270	.0089	39	9.0508	.3344	.3343
200	200.0000	1.8270	.0000	40	9.3852	.3419	.3417

$e = 39^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	9.3852	.3419	.3417	80	30.4642	.7533	.5529
41	9.7271	.3496	.3491	81	31.2175	.7656	.5557
42	10.0767	.3575	.3564	82	31.9831	.7779	.5583
43	10.4342	.3656	.3635	83	32.7610	.7903	.5608
44	10.7998	.3737	.3706	84	33.5513	.8028	.5632
45	11.1735	.3821	.3776	85	34.3541	.8152	.5653
46	11.5556	.3905	.3844	86	35.1693	.8279	.5675
47	11.9461	.3992	.3913	87	35.9972	.8403	.5693
48	12.3453	.4081	.3980	88	36.8375	.8531	.5711
49	12.7534	.4169	.4046	89	37.6906	.8656	.5727
50	13.1703	.4261	.4111	90	38.5562	.8784	.5743
51	13.5964	.4352	.4175	91	39.4346	.8911	.5756
52	14.0316	.4447	.4239	92	40.3257	.9038	.5768
53	14.4763	.4541	.4300	93	41.2295	.9166	.5779
54	14.9304	.4638	.4362	94	42.1461	.9294	.5789
55	15.3942	.4736	.4421	95	43.0755	.9422	.5796
56	15.8678	.4835	.4480	96	44.0177	.9551	.5803
57	16.3513	.4935	.4537	97	44.9728	.9679	.5808
58	16.8448	.5036	.4594	98	45.9407	.9807	.5811
59	17.3484	.5139	.4649	99	46.9214	.9936	.5813
60	17.8623	.5243	.4704	100	47.9150	1.0064	.5814
61	18.3866	.5349	.4757	101	48.9214	1.0193	.5813
62	18.9215	.5454	.4809	102	49.9407	1.0321	.5811
63	19.4669	.5563	.4860	103	50.9728	1.0449	.5808
64	20.0232	.5670	.4909	104	52.0177	1.0578	.5803
65	20.5902	.5780	.4957	105	53.0755	1.0706	.5796
66	21.1682	.5891	.5005	106	54.1461	1.0834	.5789
67	21.7573	.6002	.5050	107	55.2295	1.0962	.5779
68	22.3575	.6115	.5095	108	56.3257	1.1089	.5768
69	22.9690	.6229	.5139	109	57.4346	1.1216	.5756
70	23.5919	.6343	.5180	110	58.5562	1.1344	.5743
71	24.2262	.6459	.5221	111	59.6906	1.1469	.5727
72	24.8721	.6574	.5260	112	60.8375	1.1597	.5711
73	25.5295	.6692	.5299	113	61.9972	1.1721	.5693
74	26.1987	.6810	.5336	114	63.1693	1.1848	.5675
75	26.8797	.6929	.5372	115	64.3541	1.1972	.5653
76	27.5726	.7048	.5405	116	65.5513	1.2097	.5632
77	28.2774	.7168	.5438	117	66.7610	1.2221	.5608
78	28.9942	.7289	.5470	118	67.9831	1.2344	.5583
79	29.7231	.7411	.5501	119	69.2175	1.2467	.5557
80	30.4642	.7533	.5529	120	70.4642	1.2589	.5529



$e = 39^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	70.4642	1.2589	.5529	160	129.3852	1.6656	.3417
121	71.7231	1.2711	.5501	161	131.0508	1.6731	.3343
122	72.9942	1.2832	.5470	162	132.7239	1.6802	.3268
123	74.2774	1.2952	.5438	163	134.4041	1.6873	.3192
124	75.5726	1.3071	.5405	164	136.0914	1.6942	.3116
125	76.8797	1.3190	.5372	165	137.7856	1.7010	.3038
126	78.1987	1.3308	.5336	166	139.4866	1.7074	.2959
127	79.5295	1.3426	.5299	167	141.1940	1.7138	.2881
128	80.8721	1.3541	.5260	168	142.9078	1.7201	.2801
129	82.2262	1.3657	.5221	169	144.6279	1.7260	.2720
130	83.5919	1.3771	.5180	170	146.3539	1.7319	.2639
131	84.9690	1.3885	.5139	171	148.0858	1.7375	.2557
132	86.3575	1.3998	.5095	172	149.8233	1.7430	.2475
133	87.7573	1.4109	.5050	173	151.5663	1.7482	.2392
134	89.1682	1.4220	.5005	174	153.3145	1.7534	.2309
135	90.5902	1.4330	.4957	175	155.0679	1.7583	.2225
136	92.0232	1.4437	.4909	176	156.8262	1.7631	.2141
137	93.4669	1.4546	.4860	177	158.5893	1.7675	.2055
138	94.9215	1.4651	.4809	178	160.3568	1.7720	.1970
139	96.3866	1.4757	.4757	179	162.1288	1.7760	.1883
140	97.8623	1.4861	.4704	180	163.9048	1.7801	.1797
141	99.3484	1.4964	.4649	181	165.6849	1.7838	.1710
142	100.8448	1.5065	.4594	182	167.4687	1.7875	.1622
143	102.3513	1.5165	.4537	183	169.2562	1.7908	.1534
144	103.8678	1.5264	.4480	184	171.0470	1.7940	.1446
145	105.3942	1.5362	.4421	185	172.8410	1.7970	.1357
146	106.9304	1.5459	.4362	186	174.6380	1.7998	.1268
147	108.4763	1.5553	.4300	187	176.4378	1.8024	.1179
148	110.0316	1.5648	.4239	188	178.2402	1.8049	.1090
149	111.5964	1.5739	.4175	189	180.0451	1.8070	.0999
150	113.1703	1.5831	.4111	190	181.8521	1.8091	.0910
151	114.7534	1.5919	.4046	191	183.6612	1.8108	.0819
152	116.3453	1.6008	.3980	192	185.4720	1.8125	.0729
153	117.9461	1.6095	.3913	193	187.2845	1.8139	.0638
154	119.5556	1.6179	.3844	194	189.0984	1.8151	.0547
155	121.1735	1.6263	.3776	195	190.9135	1.8161	.0456
156	122.7998	1.6344	.3706	196	192.7296	1.8169	.0365
157	124.4342	1.6425	.3635	197	194.5465	1.8175	.0273
158	126.0767	1.6504	.3564	198	196.3640	1.8179	.0182
159	127.7271	1.6581	.3491	199	198.1819	1.8181	.0091
160	129.3852	1.6656	.3417	200	200.0000	1.8181	.0000

$e = 40^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.1910	.0000	40	9.7269	.3493	.3492
1	.1910	.1912	.0093	41	10.0762	.3569	.3567
2	.3822	.1916	.0187	42	10.4331	.3646	.3641
3	.5738	.1923	.0280	43	10.7977	.3727	.3715
4	.7661	.1930	.0373	44	11.1704	.3807	.3787
5	.9591	.1940	.0466	45	11.5511	.3889	.3858
6	1.1531	.1952	.0559	46	11.9400	.3974	.3929
7	1.3483	.1966	.0652	47	12.3374	.4059	.3999
8	1.5449	.1982	.0744	48	12.7433	.4147	.4067
9	1.7431	.2000	.0837	49	13.1580	.4234	.4134
10	1.9431	.2019	.0929	50	13.5814	.4325	.4201
11	2.1450	.2042	.1022	51	14.0139	.4416	.4266
12	2.3492	.2065	.1113	52	14.4555	.4508	.4331
13	2.5557	.2091	.1205	53	14.9063	.4603	.4394
14	2.7648	.2119	.1296	54	15.3666	.4697	.4456
15	2.9767	.2149	.1387	55	15.8363	.4795	.4518
16	3.1916	.2180	.1477	56	16.3158	.4892	.4578
17	3.4096	.2213	.1568	57	16.8050	.4992	.4637
18	3.6309	.2250	.1658	58	17.3042	.5091	.4694
19	3.8559	.2286	.1747	59	17.8133	.5194	.4751
20	4.0845	.2326	.1836	60	18.3327	.5296	.4806
21	4.3171	.2367	.1924	61	18.8623	.5401	.4861
22	4.5538	.2410	.2012	62	19.4024	.5505	.4913
23	4.7948	.2455	.2100	63	19.9529	.5612	.4966
24	5.0403	.2501	.2187	64	20.5141	.5718	.5016
25	5.2904	.2550	.2274	65	21.0859	.5828	.5066
26	5.5454	.2601	.2360	66	21.6687	.5936	.5113
27	5.8055	.2653	.2445	67	22.2623	.6047	.5161
28	6.0708	.2707	.2530	68	22.8670	.6159	.5207
29	6.3415	.2763	.2614	69	23.4829	.6270	.5250
30	6.6178	.2821	.2698	70	24.1099	.6384	.5294
31	6.8999	.2880	.2780	71	24.7483	.6498	.5336
32	7.1879	.2942	.2863	72	25.3981	.6613	.5376
33	7.4821	.3004	.2943	73	26.0594	.6729	.5415
34	7.7825	.3069	.3025	74	26.7323	.6846	.5453
35	8.0894	.3136	.3105	75	27.4169	.6962	.5488
36	8.4030	.3203	.3183	76	28.1131	.7081	.5524
37	8.7233	.3274	.3262	77	28.8212	.7200	.5558
38	9.0507	.3344	.3339	78	29.5412	.7320	.5590
39	9.3851	.3418	.3417	79	30.2732	.7439	.5621
40	9.7269	.3493	.3492	80	31.0171	.7561	.5651

$e = 40^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	31.0171	.7561	.5651	120	71.0171	1.2561	.5651
81	31.7732	.7682	.5678	121	72.2732	1.2680	.5621
82	32.5414	.7804	.5705	122	73.5412	1.2800	.5590
83	33.3218	.7927	.5731	123	74.8212	1.2919	.5558
84	34.1145	.8049	.5754	124	76.1131	1.3038	.5524
85	34.9194	.8174	.5777	125	77.4169	1.3154	.5488
86	35.7368	.8297	.5798	126	78.7323	1.3271	.5453
87	36.5665	.8421	.5817	127	80.0594	1.3387	.5415
88	37.4086	.8547	.5836	128	81.3981	1.3502	.5376
89	38.2633	.8672	.5853	129	82.7483	1.3616	.5336
90	39.1305	.8797	.5868	130	84.1099	1.3730	.5294
91	40.0102	.8923	.5882	131	85.4829	1.3841	.5250
92	40.9025	.9049	.5894	132	86.8670	1.3953	.5207
93	41.8074	.9176	.5905	133	88.2623	1.4064	.5161
94	42.7250	.9301	.5914	134	89.6687	1.4172	.5113
95	43.6551	.9429	.5923	135	91.0859	1.4282	.5066
96	44.5980	.9556	.5930	136	92.5141	1.4388	.5016
97	45.5536	.9682	.5934	137	93.9529	1.4495	.4966
98	46.5218	.9809	.5938	138	95.4024	1.4599	.4913
99	47.5027	.9937	.5941	139	96.8623	1.4704	.4861
100	48.4964	1.0063	.5941	140	98.3327	1.4806	.4806
101	49.5027	1.0191	.5941	141	99.8133	1.4909	.4751
102	50.5218	1.0318	.5938	142	101.3042	1.5008	.4694
103	51.5536	1.0444	.5934	143	102.8050	1.5108	.4637
104	52.5980	1.0571	.5930	144	104.3158	1.5205	.4578
105	53.6551	1.0699	.5923	145	105.8363	1.5303	.4518
106	54.7250	1.0824	.5914	146	107.3666	1.5397	.4456
107	55.8074	1.0951	.5905	147	108.9063	1.5492	.4394
108	56.9025	1.1077	.5894	148	110.4555	1.5584	.4331
109	58.0102	1.1203	.5882	149	112.0139	1.5675	.4266
110	59.1305	1.1328	.5868	150	113.5814	1.5766	.4201
111	60.2633	1.1453	.5853	151	115.1580	1.5853	.4134
112	61.4086	1.1579	.5836	152	116.7433	1.5941	.4067
113	62.5665	1.1703	.5817	153	118.3374	1.6026	.3999
114	63.7368	1.1826	.5798	154	119.9400	1.6111	.3929
115	64.9194	1.1951	.5777	155	121.5511	1.6193	.3858
116	66.1145	1.2073	.5754	156	123.1704	1.6273	.3787
117	67.3218	1.2196	.5731	157	124.7977	1.6354	.3715
118	68.5414	1.2318	.5705	158	126.4331	1.6431	.3641
119	69.7732	1.2439	.5678	159	128.0762	1.6507	.3567
120	71.0171	1.2561	.5651	160	129.7269	1.6582	.3492

$e = 40^c$				$e = 41^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	129.7269	1.6582	.3492	0	.0000	.2003	.0000
161	131.3851	1.6656	.3417	1	.2003	.2006	.0096
162	133.0507	1.6726	.3339	2	.4009	.2009	.0190
163	134.7233	1.6797	.3262	3	.6018	.2016	.0286
164	136.4030	1.6864	.3183	4	.8034	.2023	.0381
165	138.0894	1.6931	.3105	5	1.0057	.2033	.0476
166	139.7825	1.6996	.3025	6	1.2090	.2045	.0571
167	141.4821	1.7058	.2943	7	1.4135	.2058	.0666
168	143.1879	1.7120	.2863	8	1.6193	.2075	.0761
169	144.8999	1.7179	.2780	9	1.8268	.2092	.0855
170	146.6178	1.7237	.2698	10	2.0360	.2112	.0949
171	148.3415	1.7293	.2614	11	2.2472	.2133	.1043
172	150.0708	1.7347	.2530	12	2.4605	.2157	.1137
173	151.8055	1.7399	.2445	13	2.6762	.2182	.1230
174	153.5454	1.7450	.2360	14	2.8944	.2210	.1324
175	155.2904	1.7499	.2274	15	3.1154	.2239	.1416
176	157.0403	1.7545	.2187	16	3.3393	.2271	.1509
177	158.7948	1.7590	.2100	17	3.5664	.2303	.1600
178	160.5538	1.7633	.2012	18	3.7967	.2339	.1693
179	162.3171	1.7674	.1924	19	4.0306	.2375	.1783
180	164.0845	1.7714	.1836	20	4.2681	.2414	.1875
181	165.8559	1.7750	.1747	21	4.5095	.2455	.1965
182	167.6309	1.7787	.1658	22	4.7550	.2498	.2055
183	169.4096	1.7820	.1568	23	5.0048	.2542	.2144
184	171.1916	1.7851	.1477	24	5.2590	.2588	.2233
185	172.9767	1.7881	.1387	25	5.5178	.2636	.2321
186	174.7648	1.7909	.1296	26	5.7814	.2686	.2409
187	176.5557	1.7935	.1205	27	6.0500	.2738	.2497
188	178.3492	1.7958	.1113	28	6.3238	.2791	.2583
189	180.1450	1.7981	.1022	29	6.6029	.2847	.2669
190	181.9431	1.8000	.0929	30	6.8876	.2903	.2754
191	183.7431	1.8018	.0837	31	7.1779	.2963	.2839
192	185.5449	1.8034	.0744	32	7.4742	.3022	.2922
193	187.3483	1.8048	.0652	33	7.7764	.3086	.3006
194	189.1531	1.8060	.0559	34	8.0850	.3149	.3088
195	190.9591	1.8070	.0466	35	8.3999	.3214	.3169
196	192.7661	1.8077	.0373	36	8.7213	.3282	.3251
197	194.5738	1.8084	.0280	37	9.0495	.3351	.3331
198	196.3822	1.8088	.0187	38	9.3846	.3422	.3410
199	198.1910	1.8090	.0093	39	9.7268	.3493	.3488
200	200.0000	1.8090	.0000	40	10.0761	.3568	.3566

$e = 41^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	10.0761	.3568	.3566	80	31.5822	.7588	.5770
41	10.4329	.3643	.3643	81	32.3410	.7709	.5799
42	10.7972	.3720	.3718	82	33.1119	.7830	.5826
43	11.1692	.3799	.3793	83	33.8949	.7950	.5851
44	11.5491	.3878	.3867	84	34.6899	.8072	.5876
45	11.9369	.3960	.3940	85	35.4971	.8195	.5899
46	12.3329	.4044	.4012	86	36.3166	.8316	.5920
47	12.7373	.4127	.4083	87	37.1482	.8440	.5941
48	13.1500	.4214	.4153	88	37.9922	.8564	.5960
49	13.5714	.4301	.4222	89	38.8486	.8687	.5976
50	14.0015	.4390	.4290	90	39.7173	.8811	.5992
51	14.4405	.4481	.4357	91	40.5984	.8935	.6006
52	14.8886	.4571	.4422	92	41.4919	.9060	.6019
53	15.3457	.4665	.4488	93	42.3979	.9185	.6031
54	15.8122	.4759	.4551	94	43.3164	.9310	.6040
55	16.2881	.4855	.4613	95	44.2474	.9436	.6048
56	16.7736	.4951	.4674	96	45.1910	.9560	.6054
57	17.2687	.5049	.4734	97	46.1470	.9686	.6060
58	17.7736	.5148	.4794	98	47.1156	.9812	.6064
59	18.2884	.5249	.4852	99	48.0968	.9937	.6066
60	18.8133	.5351	.4909	100	49.0905	1.0063	.6067
61	19.3484	.5453	.4964	101	50.0968	1.0188	.6066
62	19.8937	.5558	.5018	102	51.1156	1.0314	.6064
63	20.4495	.5662	.5070	103	52.1470	1.0440	.6060
64	21.0157	.5768	.5122	104	53.1910	1.0564	.6054
65	21.5925	.5875	.5173	105	54.2474	1.0690	.6048
66	22.1800	.5984	.5222	106	55.3164	1.0815	.6040
67	22.7784	.6093	.5270	107	56.3979	1.0940	.6031
68	23.3877	.6202	.5316	108	57.4919	1.1065	.6019
69	24.0079	.6314	.5362	109	58.5984	1.1189	.6006
70	24.6393	.6426	.5405	110	59.7173	1.1313	.5992
71	25.2819	.6538	.5448	111	60.8486	1.1436	.5976
72	25.9357	.6652	.5489	112	61.9922	1.1560	.5960
73	26.6009	.6767	.5529	113	63.1482	1.1684	.5941
74	27.2776	.6881	.5567	114	64.3166	1.1805	.5920
75	27.9657	.6998	.5605	115	65.4971	1.1928	.5899
76	28.6655	.7115	.5641	116	66.6899	1.2050	.5876
77	29.3770	.7232	.5675	117	67.8949	1.2170	.5851
78	30.1002	.7351	.5708	118	69.1119	1.2291	.5826
79	30.8353	.7469	.5739	119	70.3410	1.2412	.5799
80	31.5822	.7588	.5770	120	71.5822	1.2531	.5770

$e = 41^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	71.5822	1.2531	.5770	160	130.0761	1.6507	.3566
121	72.8353	1.2649	.5739	161	131.7268	1.6578	.3488
122	74.1002	1.2768	.5708	162	133.3846	1.6649	.3410
123	75.3770	1.2885	.5675	163	135.0495	1.6718	.3331
124	76.6655	1.3002	.5641	164	136.7213	1.6786	.3251
125	77.9657	1.3119	.5605	165	138.3999	1.6851	.3169
126	79.2776	1.3233	.5567	166	140.0850	1.6914	.3088
127	80.6009	1.3348	.5529	167	141.7764	1.6978	.3006
128	81.9357	1.3462	.5489	168	143.4742	1.7037	.2922
129	83.2819	1.3574	.5448	169	145.1779	1.7097	.2839
130	84.6393	1.3686	.5405	170	146.8876	1.7153	.2754
131	86.0079	1.3798	.5362	171	148.6029	1.7209	.2669
132	87.3877	1.3907	.5316	172	150.3238	1.7262	.2583
133	88.7784	1.4016	.5270	173	152.0500	1.7314	.2497
134	90.1800	1.4125	.5222	174	153.7814	1.7364	.2409
135	91.5925	1.4232	.5173	175	155.5178	1.7412	.2321
136	93.0157	1.4338	.5122	176	157.2590	1.7458	.2233
137	94.4495	1.4442	.5070	177	159.0048	1.7502	.2144
138	95.8937	1.4547	.5018	178	160.7550	1.7545	.2055
139	97.3484	1.4649	.4964	179	162.5095	1.7586	.1965
140	98.8133	1.4751	.4909	180	164.2681	1.7625	.1875
141	100.2884	1.4852	.4852	181	166.0306	1.7661	.1783
142	101.7736	1.4951	.4794	182	167.7967	1.7697	.1693
143	103.2687	1.5049	.4734	183	169.5664	1.7729	.1600
144	104.7736	1.5145	.4674	184	171.3393	1.7761	.1509
145	106.2881	1.5241	.4613	185	173.1154	1.7790	.1416
146	107.8122	1.5335	.4551	186	174.8944	1.7818	.1324
147	109.3457	1.5429	.4488	187	176.6762	1.7843	.1230
148	110.8886	1.5519	.4422	188	178.4605	1.7867	.1137
149	112.4405	1.5610	.4357	189	180.2472	1.7888	.1043
150	114.0015	1.5699	.4290	190	182.0360	1.7908	.0949
151	115.5714	1.5786	.4222	191	183.8268	1.7925	.0855
152	117.1500	1.5873	.4153	192	185.6193	1.7942	.0761
153	118.7373	1.5956	.4083	193	187.4135	1.7955	.0666
154	120.3329	1.6040	.4012	194	189.2090	1.7967	.0571
155	121.9369	1.6122	.3940	195	191.0057	1.7977	.0476
156	123.5491	1.6201	.3867	196	192.8034	1.7984	.0381
157	125.1692	1.6280	.3793	197	194.6018	1.7991	.0286
158	126.7972	1.6357	.3718	198	196.4009	1.7994	.0190
159	128.4329	1.6432	.3643	199	198.2003	1.7997	.0096
160	130.0761	1.6507	.3566	200	200.0000	1.7997	.0000

$e = 42^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.2099	.0000	40	10.4327	.3645	.3639
1	.2099	.2100	.0097	41	10.7972	.3718	.3717
2	.4199	.2105	.0195	42	11.1690	.3795	.3795
3	.6304	.2111	.0292	43	11.5485	.3873	.3871
4	.8415	.2118	.0388	44	11.9358	.3951	.3946
5	1.0533	.2128	.0486	45	12.3309	.4032	.4021
6	1.2661	.2140	.0582	46	12.7341	.4115	.4095
7	1.4801	.2153	.0679	47	13.1456	.4197	.4166
8	1.6954	.2169	.0776	48	13.5653	.4283	.4238
9	1.9123	.2186	.0872	49	13.9936	.4369	.4308
10	2.1309	.2206	.0969	50	14.4305	.4457	.4378
11	2.3515	.2227	.1064	51	14.8762	.4546	.4446
12	2.5742	.2250	.1160	52	15.3308	.4637	.4513
13	2.7992	.2276	.1256	53	15.7945	.4728	.4579
14	3.0268	.2302	.1350	54	16.2673	.4821	.4644
15	3.2570	.2332	.1446	55	16.7494	.4916	.4708
16	3.4902	.2362	.1540	56	17.2410	.5011	.4770
17	3.7264	.2396	.1634	57	17.7421	.5109	.4832
18	3.9660	.2429	.1727	58	18.2530	.5206	.4891
19	4.2089	.2467	.1821	59	18.7736	.5306	.4951
20	4.4556	.2504	.1913	60	19.3042	.5406	.5008
21	4.7060	.2545	.2006	61	19.8448	.5507	.5065
22	4.9605	.2587	.2097	62	20.3955	.5610	.5120
23	5.2192	.2631	.2188	63	20.9565	.5714	.5175
24	5.4823	.2676	.2279	64	21.5279	.5819	.5227
25	5.7499	.2724	.2370	65	22.1098	.5924	.5278
26	6.0223	.2774	.2459	66	22.7022	.6032	.5329
27	6.2997	.2824	.2547	67	23.3054	.6139	.5377
28	6.5821	.2877	.2636	68	23.9193	.6248	.5425
29	6.8698	.2932	.2724	69	24.5441	.6357	.5471
30	7.1630	.2988	.2811	70	25.1798	.6469	.5517
31	7.4618	.3046	.2897	71	25.8267	.6579	.5559
32	7.7664	.3106	.2983	72	26.4846	.6692	.5602
33	8.0770	.3168	.3068	73	27.1538	.6805	.5643
34	8.3938	.3230	.3151	74	27.8343	.6919	.5682
35	8.7168	.3296	.3235	75	28.5262	.7034	.5720
36	9.0464	.3362	.3317	76	29.2296	.7149	.5756
37	9.3826	.3430	.3399	77	29.9445	.7265	.5791
38	9.7256	.3500	.3480	78	30.6710	.7382	.5825
39	10.0756	.3571	.3560	79	31.4092	.7500	.5857
40	10.4327	.3645	.3639	80	32.1592	.7617	.5888

$e = 42^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	32.1592	.7617	.5888	120	72.1592	1.2500	.5888
81	32.9209	.7736	.5917	121	73.4092	1.2618	.5857
82	33.6945	.7855	.5945	122	74.6710	1.2735	.5825
83	34.4800	.7975	.5972	123	75.9445	1.2851	.5791
84	35.2775	.8095	.5997	124	77.2296	1.2966	.5756
85	36.0870	.8216	.6020	125	78.5262	1.3081	.5720
86	36.9086	.8337	.6042	126	79.8343	1.3195	.5682
87	37.7423	.8459	.6062	127	81.1538	1.3308	.5643
88	38.5882	.8580	.6081	128	82.4846	1.3421	.5602
89	39.4462	.8703	.6099	129	83.8267	1.3531	.5559
90	40.3165	.8825	.6114	130	85.1798	1.3643	.5517
91	41.1990	.8948	.6129	131	86.5441	1.3752	.5471
92	42.0938	.9072	.6142	132	87.9193	1.3861	.5425
93	43.0010	.9194	.6153	133	89.3054	1.3968	.5377
94	43.9204	.9318	.6164	134	90.7022	1.4076	.5329
95	44.8522	.9442	.6172	135	92.1098	1.4181	.5278
96	45.7964	.9566	.6179	136	93.5279	1.4286	.5227
97	46.7530	.9690	.6184	137	94.9565	1.4390	.5175
98	47.7220	.9814	.6188	138	96.3955	1.4493	.5120
99	48.7034	.9938	.6190	139	97.8448	1.4594	.5065
100	49.6972	1.0062	.6191	140	99.3042	1.4694	.5008
101	50.7034	1.0186	.6190	141	100.7736	1.4794	.4951
102	51.7220	1.0310	.6188	142	102.2530	1.4891	.4891
103	52.7530	1.0434	.6184	143	103.7421	1.4989	.4832
104	53.7964	1.0558	.6179	144	105.2410	1.5084	.4770
105	54.8522	1.0682	.6172	145	106.7494	1.5179	.4708
106	55.9204	1.0806	.6164	146	108.2673	1.5272	.4644
107	57.0010	1.0928	.6153	147	109.7945	1.5363	.4579
108	58.0938	1.1052	.6142	148	111.3308	1.5454	.4513
109	59.1990	1.1175	.6129	149	112.8762	1.5543	.4446
110	60.3165	1.1297	.6114	150	114.4305	1.5631	.4378
111	61.4462	1.1420	.6099	151	115.9936	1.5717	.4308
112	62.5882	1.1541	.6081	152	117.5653	1.5803	.4238
113	63.7423	1.1663	.6062	153	119.1456	1.5885	.4166
114	64.9086	1.1784	.6042	154	120.7341	1.5968	.4095
115	66.0870	1.1905	.6020	155	122.3309	1.6049	.4021
116	67.2775	1.2025	.5997	156	123.9358	1.6127	.3946
117	68.4800	1.2145	.5972	157	125.5485	1.6205	.3871
118	69.6945	1.2264	.5945	158	127.1690	1.6282	.3795
119	70.9209	1.2383	.5917	159	128.7972	1.6355	.3717
120	72.1592	1.2500	.5888	160	130.4327	1.6429	.3639



$e = 42^\circ$				$e = 43^\circ$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	130.4327	1.6429	.3639	0	.0000	.2196	.0000
161	132.0756	1.6500	.3560	1	.2196	.2198	.0099
162	133.7256	1.6570	.3480	2	.4394	.2202	.0198
163	135.3826	1.6638	.3399	3	.6596	.2207	.0297
164	137.0464	1.6704	.3317	4	.8803	.2216	.0397
165	138.7168	1.6770	.3235	5	1.1019	.2224	.0495
166	140.3938	1.6832	.3151	6	1.3243	.2237	.0595
167	142.0770	1.6894	.3068	7	1.5480	.2250	.0693
168	143.7664	1.6954	.2983	8	1.7730	.2265	.0791
169	145.4618	1.7012	.2897	9	1.9995	.2283	.0890
170	147.1630	1.7068	.2811	10	2.2278	.2301	.0987
171	148.8698	1.7123	.2724	11	2.4579	.2323	.1086
172	150.5821	1.7176	.2636	12	2.6902	.2346	.1183
173	152.2997	1.7226	.2547	13	2.9248	.2370	.1280
174	154.0223	1.7276	.2459	14	3.1618	.2398	.1378
175	155.7499	1.7324	.2370	15	3.4016	.2426	.1473
176	157.4823	1.7369	.2279	16	3.6442	.2456	.1570
177	159.2192	1.7413	.2188	17	3.8898	.2489	.1666
178	160.9605	1.7455	.2097	18	4.1387	.2523	.1761
179	162.7060	1.7496	.2006	19	4.3910	.2559	.1856
180	164.4556	1.7533	.1913	20	4.6469	.2597	.1951
181	166.2089	1.7571	.1821	21	4.9066	.2636	.2045
182	167.9660	1.7604	.1727	22	5.1702	.2678	.2139
183	169.7264	1.7638	.1634	23	5.4380	.2722	.2232
184	171.4902	1.7668	.1540	24	5.7102	.2767	.2324
185	173.2570	1.7698	.1446	25	5.9869	.2813	.2416
186	175.0268	1.7724	.1350	26	6.2682	.2862	.2507
187	176.7992	1.7750	.1256	27	6.5544	.2913	.2598
188	178.5742	1.7773	.1160	28	6.8457	.2965	.2688
189	180.3515	1.7794	.1064	29	7.1422	.3019	.2777
190	182.1309	1.7814	.0969	30	7.4441	.3074	.2866
191	183.9123	1.7831	.0872	31	7.7515	.3132	.2954
192	185.6954	1.7847	.0776	32	8.0647	.3191	.3041
193	187.4801	1.7860	.0679	33	8.3838	.3251	.3128
194	189.2661	1.7872	.0582	34	8.7089	.3314	.3214
195	191.0533	1.7882	.0486	35	9.0403	.3378	.3299
196	192.8415	1.7889	.0388	36	9.3781	.3444	.3383
197	194.6304	1.7895	.0292	37	9.7225	.3511	.3466
198	196.4199	1.7900	.0195	38	10.0736	.3580	.3549
199	198.2099	1.7901	.0097	39	10.4316	.3650	.3630
200	200.0000	1.7901	.0000	40	10.7966	.3723	.3711

$e = 43^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	10.7966	.3723	.3711	80	32.7480	.7646	.6004
41	11.1689	.3796	.3790	81	33.5126	.7764	.6035
42	11.5485	.3871	.3869	82	34.2890	.7882	.6063
43	11.9356	.3948	.3947	83	35.0772	.8000	.6089
44	12.3304	.4026	.4024	84	35.8772	.8118	.6115
45	12.7330	.4106	.4100	85	36.6890	.8238	.6139
46	13.1436	.4186	.4175	86	37.5128	.8357	.6161
47	13.5622	.4269	.4249	87	38.3485	.8478	.6183
48	13.9891	.4353	.4322	88	39.1963	.8598	.6202
49	14.4244	.4439	.4394	89	40.0561	.8718	.6219
50	14.8683	.4525	.4464	90	40.9279	.8840	.6236
51	15.3208	.4613	.4534	91	41.8119	.8961	.6251
52	15.7821	.4703	.4602	92	42.7080	.9083	.6264
53	16.2524	.4793	.4669	93	43.6163	.9205	.6275
54	16.7317	.4885	.4736	94	44.5368	.9326	.6285
55	17.2202	.4978	.4801	95	45.4694	.9449	.6294
56	17.7180	.5073	.4865	96	46.4143	.9571	.6301
57	18.2253	.5168	.4927	97	47.3714	.9694	.6307
58	18.7421	.5266	.4989	98	48.3408	.9816	.6310
59	19.2687	.5363	.5049	99	49.3224	.9939	.6313
60	19.8050	.5463	.5108	100	50.3163	1.0061	.6313
61	20.3513	.5562	.5165	101	51.3224	1.0184	.6313
62	20.9075	.5665	.5222	102	52.3408	1.0306	.6310
63	21.4740	.5766	.5276	103	53.3714	1.0429	.6307
64	22.0506	.5870	.5331	104	54.4143	1.0551	.6301
65	22.6376	.5975	.5384	105	55.4694	1.0674	.6294
66	23.2351	.6080	.5434	106	56.5368	1.0795	.6285
67	23.8431	.6187	.5484	107	57.6163	1.0917	.6275
68	24.4618	.6294	.5533	108	58.7080	1.1039	.6264
69	25.0912	.6403	.5580	109	59.8119	1.1160	.6251
70	25.7315	.6511	.5625	110	60.9279	1.1282	.6236
71	26.3826	.6622	.5670	111	62.0561	1.1402	.6219
72	27.0448	.6733	.5713	112	63.1963	1.1522	.6202
73	27.7181	.6844	.5754	113	64.3485	1.1643	.6183
74	28.4025	.6957	.5794	114	65.5128	1.1762	.6161
75	29.0982	.7070	.5833	115	66.6890	1.1882	.6139
76	29.8052	.7184	.5870	116	67.8772	1.2000	.6115
77	30.5236	.7299	.5906	117	69.0772	1.2118	.6089
78	31.2535	.7414	.5940	118	70.2890	1.2236	.6063
79	31.9949	.7531	.5973	119	71.5126	1.2354	.6035
80	32.7480	.7646	.6004	120	72.7480	1.2469	.6004

$e = 43^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	72.7480	1.2469	.6004	160	130.7966	1.6350	.3711
121	73.9949	1.2586	.5973	161	132.4316	1.6420	.3630
122	75.2535	1.2701	.5940	162	134.0736	1.6489	.3549
123	76.5236	1.2816	.5906	163	135.7225	1.6556	.3466
124	77.8052	1.2930	.5870	164	137.3781	1.6622	.3383
125	79.0982	1.3043	.5833	165	139.0403	1.6686	.3299
126	80.4025	1.3156	.5794	166	140.7089	1.6749	.3214
127	81.7181	1.3267	.5754	167	142.3838	1.6809	.3128
128	83.0448	1.3378	.5713	168	144.0647	1.6868	.3041
129	84.3826	1.3489	.5670	169	145.7515	1.6926	.2954
130	85.7315	1.3597	.5625	170	147.4441	1.6981	.2866
131	87.0912	1.3706	.5580	171	149.1422	1.7035	.2777
132	88.4618	1.3813	.5533	172	150.8457	1.7087	.2688
133	89.8431	1.3920	.5484	173	152.5544	1.7138	.2598
134	91.2351	1.4025	.5434	174	154.2682	1.7187	.2507
135	92.6376	1.4130	.5384	175	155.9869	1.7233	.2416
136	94.0506	1.4234	.5331	176	157.7102	1.7278	.2324
137	95.4740	1.4335	.5276	177	159.4380	1.7322	.2232
138	96.9075	1.4438	.5222	178	161.1702	1.7364	.2139
139	98.3513	1.4537	.5165	179	162.9066	1.7403	.2045
140	99.8050	1.4637	.5108	180	164.6469	1.7441	.1951
141	101.2687	1.4734	.5049	181	166.3910	1.7477	.1856
142	102.7421	1.4832	.4989	182	168.1387	1.7511	.1761
143	104.2253	1.4927	.4927	183	169.8898	1.7544	.1666
144	105.7180	1.5022	.4865	184	171.6442	1.7574	.1570
145	107.2202	1.5115	.4801	185	173.4016	1.7602	.1473
146	108.7317	1.5207	.4736	186	175.1618	1.7630	.1378
147	110.2524	1.5297	.4669	187	176.9248	1.7654	.1280
148	111.7821	1.5387	.4602	188	178.6902	1.7677	.1183
149	113.3208	1.5475	.4534	189	180.4579	1.7699	.1086
150	114.8683	1.5561	.4464	190	182.2278	1.7717	.0987
151	116.4244	1.5647	.4394	191	183.9995	1.7735	.0890
152	117.9891	1.5731	.4322	192	185.7730	1.7750	.0791
153	119.5622	1.5814	.4249	193	187.5480	1.7763	.0693
154	121.1436	1.5894	.4175	194	189.3243	1.7776	.0595
155	122.7330	1.5974	.4100	195	191.1019	1.7784	.0495
156	124.3304	1.6052	.4024	196	192.8803	1.7793	.0397
157	125.9356	1.6129	.3947	197	194.6596	1.7798	.0297
158	127.5485	1.6204	.3869	198	196.4394	1.7802	.0198
159	129.1689	1.6277	.3790	199	198.2196	1.7804	.0099
160	130.7966	1.6350	.3711	200	200.0000	1.7804	.0000

$e = 44^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.2295	.0000	40	11.1677	.3802	.3782
1	.2295	.2297	.0101	41	11.5479	.3875	.3864
2	.4592	.2301	.0202	42	11.9354	.3949	.3944
3	.6893	.2307	.0303	43	12.3303	.4025	.4024
4	.9200	.2314	.0404	44	12.7328	.4102	.4102
5	1.1514	.2324	.0505	45	13.1430	.4181	.4179
6	1.3838	.2335	.0605	46	13.5611	.4260	.4255
7	1.6173	.2348	.0706	47	13.9871	.4342	.4331
8	1.8521	.2364	.0807	48	14.4213	.4425	.4405
9	2.0885	.2380	.0906	49	14.8638	.4509	.4478
10	2.3265	.2400	.1007	50	15.3147	.4595	.4550
11	2.5665	.2420	.1106	51	15.7742	.4681	.4621
12	2.8085	.2443	.1206	52	16.2423	.4770	.4691
13	3.0528	.2468	.1305	53	16.7193	.4860	.4759
14	3.2996	.2493	.1403	54	17.2053	.4950	.4826
15	3.5489	.2523	.1503	55	17.7003	.5042	.4892
16	3.8012	.2552	.1600	56	18.2045	.5135	.4958
17	4.0564	.2584	.1698	57	18.7180	.5230	.5022
18	4.3148	.2618	.1795	58	19.2410	.5326	.5084
19	4.5766	.2654	.1892	59	19.7736	.5422	.5145
20	4.8420	.2691	.1988	60	20.3158	.5520	.5205
21	5.1111	.2730	.2084	61	20.8678	.5619	.5264
22	5.3841	.2771	.2180	62	21.4297	.5719	.5322
23	5.6612	.2814	.2275	63	22.0016	.5821	.5378
24	5.9426	.2859	.2369	64	22.5837	.5923	.5433
25	6.2285	.2904	.2462	65	23.1760	.6025	.5486
26	6.5189	.2953	.2556	66	23.7785	.6130	.5539
27	6.8142	.3003	.2648	67	24.3915	.6236	.5590
28	7.1145	.3054	.2740	68	25.0151	.6341	.5638
29	7.4199	.3108	.2831	69	25.6492	.6448	.5686
30	7.7307	.3162	.2921	70	26.2940	.6556	.5733
31	8.0469	.3219	.3011	71	26.9496	.6665	.5778
32	8.3688	.3278	.3100	72	27.6161	.6774	.5822
33	8.6966	.3337	.3188	73	28.2935	.6884	.5864
34	9.0303	.3399	.3275	74	28.9819	.6996	.5906
35	9.3702	.3462	.3362	75	29.6815	.7107	.5945
36	9.7164	.3527	.3448	76	30.3922	.7220	.5983
37	10.0691	.3594	.3533	77	31.1142	.7333	.6019
38	10.4285	.3661	.3616	78	31.8475	.7447	.6055
39	10.7946	.3731	.3700	79	32.5922	.7562	.6088
40	11.1677	.3802	.3782	80	33.3484	.7677	.6120

$e = 44^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	33.3484	.7677	.6120	120	73.3484	1.2438	.6120
81	34.1161	.7792	.6150	121	74.5922	1.2553	.6088
82	34.8953	.7908	.6179	122	75.8475	1.2667	.6055
83	35.6861	.8026	.6207	123	77.1142	1.2780	.6019
84	36.4887	.8142	.6232	124	78.3922	1.2893	.5983
85	37.3029	.8260	.6257	125	79.6815	1.3004	.5945
86	38.1289	.8379	.6280	126	80.9819	1.3116	.5906
87	38.9668	.8497	.6301	127	82.2935	1.3226	.5864
88	39.8165	.8615	.6320	128	83.6161	1.3335	.5822
89	40.6780	.8735	.6339	129	84.9496	1.3444	.5778
90	41.5515	.8855	.6355	130	86.2940	1.3552	.5733
91	42.4370	.8974	.6370	131	87.6492	1.3659	.5686
92	43.3344	.9094	.6384	132	89.0151	1.3764	.5638
93	44.2438	.9215	.6396	133	90.3915	1.3870	.5590
94	45.1653	.9335	.6406	134	91.7785	1.3975	.5539
95	46.0988	.9456	.6415	135	93.1760	1.4077	.5486
96	47.0444	.9577	.6422	136	94.5837	1.4179	.5433
97	48.0021	.9697	.6427	137	96.0016	1.4281	.5378
98	48.9718	.9819	.6431	138	97.4297	1.4381	.5322
99	49.9537	.9939	.6433	139	98.8678	1.4480	.5264
100	50.9476	1.0061	.6435	140	100.3158	1.4578	.5205
101	51.9537	1.0181	.6433	141	101.7736	1.4674	.5145
102	52.9718	1.0303	.6431	142	103.2410	1.4770	.5084
103	54.0021	1.0423	.6427	143	104.7180	1.4865	.5022
104	55.0444	1.0544	.6422	144	106.2045	1.4958	.4958
105	56.0988	1.0665	.6415	145	107.7003	1.5050	.4892
106	57.1653	1.0785	.6406	146	109.2053	1.5140	.4826
107	58.2438	1.0906	.6396	147	110.7193	1.5230	.4759
108	59.3344	1.1026	.6384	148	112.2423	1.5319	.4691
109	60.4370	1.1145	.6370	149	113.7742	1.5405	.4621
110	61.5515	1.1265	.6355	150	115.3147	1.5491	.4550
111	62.6780	1.1385	.6339	151	116.8638	1.5575	.4478
112	63.8165	1.1503	.6320	152	118.4213	1.5658	.4405
113	64.9668	1.1621	.6301	153	119.9871	1.5740	.4331
114	66.1289	1.1740	.6280	154	121.5611	1.5819	.4255
115	67.3029	1.1858	.6257	155	123.1430	1.5898	.4179
116	68.4887	1.1974	.6232	156	124.7328	1.5975	.4102
117	69.6861	1.2092	.6207	157	126.3303	1.6051	.4024
118	70.8953	1.2208	.6179	158	127.9354	1.6125	.3944
119	72.1161	1.2323	.6150	159	129.5479	1.6198	.3864
120	73.3484	1.2438	.6120	160	131.1677	1.6269	.3782

$e = 44^c$				$e = 45^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	131.1677	1.6269	.3782	0	.0000	.2396	.0000
161	132.7946	1.6339	.3700	1	.2396	.2398	.0103
162	134.4285	1.6406	.3616	2	.4794	.2402	.0206
163	136.0691	1.6473	.3533	3	.7196	.2408	.0309
164	137.7164	1.6538	.3448	4	.9604	.2415	.0411
165	139.3702	1.6601	.3362	5	1.2019	.2424	.0514
166	141.0303	1.6663	.3275	6	1.4443	.2436	.0617
167	142.6966	1.6722	.3188	7	1.6879	.2449	.0719
168	144.3688	1.6781	.3100	8	1.9328	.2463	.0821
169	146.0469	1.6838	.3011	9	2.1791	.2481	.0924
170	147.7307	1.6892	.2921	10	2.4272	.2499	.1025
171	149.4199	1.6946	.2831	11	2.6771	.2520	.1127
172	151.1145	1.6997	.2740	12	2.9291	.2542	.1228
173	152.8142	1.7047	.2648	13	3.1833	.2566	.1329
174	154.5189	1.7096	.2556	14	3.4399	.2593	.1430
175	156.2285	1.7141	.2462	15	3.6992	.2620	.1530
176	157.9426	1.7186	.2369	16	3.9612	.2650	.1630
177	159.6612	1.7229	.2275	17	4.2262	.2681	.1729
178	161.3841	1.7270	.2180	18	4.4943	.2715	.1829
179	163.1111	1.7309	.2084	19	4.7658	.2750	.1927
180	164.8420	1.7346	.1988	20	5.0408	.2787	.2025
181	166.5766	1.7382	.1892	21	5.3195	.2826	.2123
182	168.3148	1.7416	.1795	22	5.6021	.2866	.2220
183	170.0564	1.7448	.1698	23	5.8887	.2908	.2316
184	171.8012	1.7477	.1600	24	6.1795	.2952	.2412
185	173.5489	1.7507	.1503	25	6.4747	.2998	.2508
186	175.2996	1.7532	.1403	26	6.7745	.3045	.2603
187	177.0528	1.7557	.1305	27	7.0790	.3095	.2697
188	178.8085	1.7580	.1206	28	7.3885	.3145	.2790
189	180.5665	1.7600	.1106	29	7.7030	.3198	.2883
190	182.3265	1.7620	.1007	30	8.0228	.3252	.2975
191	184.0885	1.7636	.0906	31	8.3480	.3308	.3067
192	185.8521	1.7652	.0807	32	8.6788	.3366	.3157
193	187.6173	1.7665	.0706	33	9.0154	.3424	.3247
194	189.3838	1.7676	.0605	34	9.3578	.3486	.3337
195	191.1514	1.7686	.0505	35	9.7064	.3548	.3424
196	192.9200	1.7693	.0404	36	10.0612	.3612	.3512
197	194.6893	1.7699	.0303	37	10.4224	.3677	.3598
198	196.4592	1.7703	.0202	38	10.7901	.3745	.3684
199	198.2295	1.7705	.0101	39	11.1646	.3813	.3769
200	200.0000	1.7705	.0000	40	11.5459	.3884	.3853

$e = 45^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	11.5459	.3884	.3853	80	33.9604	.7707	.6233
41	11.9343	.3955	.3935	81	34.7311	.7821	.6264
42	12.3298	.4029	.4017	82	35.5132	.7936	.6294
43	12.7327	.4103	.4097	83	36.3068	.8051	.6322
44	13.1430	.4179	.4177	84	37.1119	.8167	.6348
45	13.5609	.4257	.4256	85	37.9286	.8283	.6373
46	13.9866	.4336	.4334	86	38.7569	.8400	.6396
47	14.4202	.4416	.4411	87	39.5969	.8516	.6417
48	14.8618	.4498	.4486	88	40.4485	.8634	.6438
49	15.3116	.4581	.4561	89	41.3119	.8751	.6456
50	15.7697	.4666	.4634	90	42.1870	.8870	.6474
51	16.2363	.4751	.4706	91	43.0740	.8988	.6489
52	16.7114	.4838	.4778	92	43.9728	.9106	.6502
53	17.1952	.4927	.4848	93	44.8834	.9225	.6514
54	17.6879	.5016	.4916	94	45.8059	.9344	.6525
55	18.1895	.5108	.4984	95	46.7403	.9463	.6534
56	18.7003	.5199	.5050	96	47.6866	.9582	.6541
57	19.2202	.5292	.5115	97	48.6448	.9701	.6547
58	19.7494	.5387	.5179	98	49.6149	.9821	.6551
59	20.2881	.5482	.5241	99	50.5970	.9941	.6553
60	20.8363	.5579	.5303	100	51.5911	1.0059	.6553
61	21.3942	.5677	.5362	101	52.5970	1.0179	.6553
62	21.9619	.5775	.5421	102	53.6149	1.0299	.6551
63	22.5394	.5876	.5478	103	54.6448	1.0418	.6547
64	23.1270	.5976	.5533	104	55.6866	1.0537	.6541
65	23.7246	.6078	.5588	105	56.7403	1.0656	.6534
66	24.3324	.6181	.5641	106	57.8059	1.0775	.6525
67	24.9505	.6284	.5693	107	58.8834	1.0894	.6514
68	25.5789	.6389	.5743	108	59.9728	1.1012	.6502
69	26.2178	.6495	.5793	109	61.0740	1.1130	.6489
70	26.8673	.6601	.5840	110	62.1870	1.1249	.6474
71	27.5274	.6709	.5886	111	63.3119	1.1366	.6456
72	28.1983	.6816	.5930	112	64.4485	1.1484	.6438
73	28.8799	.6926	.5974	113	65.5969	1.1600	.6417
74	29.5725	.7035	.6015	114	66.7569	1.1717	.6396
75	30.2760	.7145	.6055	115	67.9286	1.1833	.6373
76	30.9905	.7256	.6094	116	69.1119	1.1949	.6348
77	31.7161	.7369	.6131	117	70.3068	1.2064	.6322
78	32.4530	.7480	.6166	118	71.5132	1.2179	.6294
79	33.2010	.7594	.6201	119	72.7311	1.2293	.6264
80	33.9604	.7707	.6233	120	73.9604	1.2406	.6233

$e = 45^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	73.9604	1.2406	.6233	160	131.5459	1.6187	.3853
121	75.2010	1.2520	.6201	161	133.1646	1.6255	.3769
122	76.4530	1.2631	.6166	162	134.7901	1.6323	.3684
123	77.7161	1.2744	.6131	163	136.4224	1.6388	.3598
124	78.9905	1.2855	.6094	164	138.0612	1.6452	.3512
125	80.2760	1.2965	.6055	165	139.7064	1.6514	.3424
126	81.5725	1.3074	.6015	166	141.3578	1.6576	.3337
127	82.8799	1.3184	.5974	167	143.0154	1.6634	.3247
128	84.1983	1.3291	.5930	168	144.6788	1.6692	.3157
129	85.5274	1.3399	.5886	169	146.3480	1.6748	.3067
130	86.8673	1.3505	.5840	170	148.0228	1.6802	.2975
131	88.2178	1.3611	.5793	171	149.7030	1.6855	.2883
132	89.5789	1.3716	.5743	172	151.3885	1.6905	.2790
133	90.9505	1.3819	.5693	173	153.0790	1.6955	.2697
134	92.3324	1.3922	.5641	174	154.7745	1.7002	.2603
135	93.7246	1.4024	.5588	175	156.4747	1.7048	.2508
136	95.1270	1.4124	.5533	176	158.1795	1.7092	.2412
137	96.5394	1.4225	.5478	177	159.8887	1.7134	.2316
138	97.9619	1.4323	.5421	178	161.6021	1.7174	.2220
139	99.3942	1.4421	.5362	179	163.3195	1.7213	.2123
140	100.8363	1.4518	.5303	180	165.0408	1.7250	.2025
141	102.2881	1.4613	.5241	181	166.7658	1.7285	.1927
142	103.7494	1.4708	.5179	182	168.4943	1.7319	.1829
143	105.2202	1.4801	.5115	183	170.2262	1.7350	.1729
144	106.7003	1.4892	.5050	184	171.9612	1.7380	.1630
145	108.1895	1.4984	.4984	185	173.6992	1.7407	.1530
146	109.6879	1.5073	.4916	186	175.4399	1.7434	.1430
147	111.1952	1.5162	.4848	187	177.1833	1.7458	.1329
148	112.7114	1.5249	.4778	188	178.9291	1.7480	.1228
149	114.2363	1.5334	.4706	189	180.6771	1.7501	.1127
150	115.7697	1.5419	.4634	190	182.4272	1.7519	.1025
151	117.3116	1.5502	.4561	191	184.1791	1.7537	.0924
152	118.8618	1.5584	.4486	192	185.9328	1.7551	.0821
153	120.4202	1.5664	.4411	193	187.6879	1.7564	.0719
154	121.9866	1.5743	.4334	194	189.4443	1.7576	.0617
155	123.5609	1.5821	.4256	195	191.2019	1.7585	.0514
156	125.1430	1.5897	.4177	196	192.9604	1.7592	.0411
157	126.7327	1.5971	.4097	197	194.7196	1.7598	.0309
158	128.3298	1.6045	.4017	198	196.4794	1.7602	.0206
159	129.9343	1.6116	.3935	199	198.2396	1.7604	.0103
160	131.5459	1.6187	.3853	200	200.0000	1.7604	.0000



$e = 46^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.2499	.0000	40	11.9312	.3966	.3921
1	.2499	.2501	.0105	41	12.3278	.4037	.4006
2	.5000	.2505	.0210	42	12.7315	.4109	.4089
3	.7505	.2510	.0314	43	13.1424	.4183	.4172
4	1.0015	.2518	.0419	44	13.5607	.4258	.4253
5	1.2533	.2527	.0523	45	13.9865	.4335	.4333
6	1.5060	.2538	.0628	46	14.4200	.4413	.4412
7	1.7598	.2551	.0732	47	14.8613	.4491	.4490
8	2.0149	.2566	.0836	48	15.3104	.4573	.4568
9	2.2715	.2582	.0940	49	15.7677	.4654	.4643
10	2.5297	.2601	.1044	50	16.2331	.4738	.4718
11	2.7898	.2621	.1147	51	16.7069	.4823	.4791
12	3.0519	.2643	.1250	52	17.1892	.4908	.4863
13	3.3162	.2667	.1353	53	17.6800	.4995	.4935
14	3.5829	.2693	.1455	54	18.1795	.5084	.5005
15	3.8522	.2720	.1557	55	18.6879	.5174	.5073
16	4.1242	.2749	.1659	56	19.2053	.5264	.5140
17	4.3991	.2781	.1761	57	19.7317	.5356	.5207
18	4.6772	.2813	.1861	58	20.2673	.5449	.5272
19	4.9585	.2848	.1962	59	20.8122	.5544	.5335
20	5.2433	.2885	.2062	60	21.3666	.5638	.5397
21	5.5318	.2923	.2161	61	21.9304	.5736	.5459
22	5.8241	.2962	.2260	62	22.5040	.5832	.5518
23	6.1203	.3004	.2358	63	23.0872	.5931	.5577
24	6.4207	.3048	.2456	64	23.6803	.6031	.5634
25	6.7255	.3093	.2553	65	24.2834	.6131	.5689
26	7.0348	.3139	.2649	66	24.8965	.6233	.5743
27	7.3487	.3188	.2746	67	25.5198	.6334	.5795
28	7.6675	.3238	.2841	68	26.1532	.6439	.5847
29	7.9913	.3290	.2936	69	26.7971	.6542	.5896
30	8.3203	.3344	.3029	70	27.4513	.6647	.5944
31	8.6547	.3398	.3122	71	28.1160	.6753	.5991
32	8.9945	.3456	.3215	72	28.7913	.6860	.6037
33	9.3401	.3514	.3305	73	29.4773	.6967	.6080
34	9.6915	.3573	.3396	74	30.1740	.7075	.6123
35	10.0488	.3636	.3486	75	30.8815	.7184	.6164
36	10.4124	.3698	.3575	76	31.5999	.7293	.6203
37	10.7822	.3763	.3663	77	32.3292	.7404	.6241
38	11.1585	.3830	.3750	78	33.0696	.7515	.6277
39	11.5415	.3897	.3836	79	33.8211	.7626	.6312
40	11.9312	.3966	.3921	80	34.5837	.7738	.6345

$e = 46^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	34.5837	.7738	.6345	120	74.5837	1.2374	.6345
81	35.3575	.7851	.6377	121	75.8211	1.2485	.6312
82	36.1426	.7964	.6406	122	77.0696	1.2596	.6277
83	36.9390	.8077	.6435	123	78.3292	1.2707	.6241
84	37.7467	.8192	.6462	124	79.5999	1.2816	.6203
85	38.5659	.8306	.6487	125	80.8815	1.2925	.6164
86	39.3965	.8421	.6511	126	82.1740	1.3033	.6123
87	40.2386	.8537	.6533	127	83.4773	1.3140	.6080
88	41.0923	.8652	.6554	128	84.7913	1.3247	.6037
89	41.9575	.8769	.6573	129	86.1160	1.3353	.5991
90	42.8344	.8885	.6589	130	87.4513	1.3458	.5944
91	43.7229	.9001	.6605	131	88.7971	1.3561	.5896
92	44.6230	.9118	.6619	132	90.1532	1.3666	.5847
93	45.5348	.9236	.6632	133	91.5198	1.3767	.5795
94	46.4584	.9353	.6642	134	92.8965	1.3869	.5743
95	47.3937	.9470	.6651	135	94.2834	1.3969	.5689
96	48.3407	.9588	.6658	136	95.6803	1.4069	.5634
97	49.2995	.9705	.6664	137	97.0872	1.4168	.5577
98	50.2700	.9823	.6669	138	98.5040	1.4264	.5518
99	51.2523	.9941	.6671	139	99.9304	1.4362	.5459
100	52.2464	1.0059	.6672	140	101.3666	1.4456	.5397
101	53.2523	1.0177	.6671	141	102.8122	1.4551	.5335
102	54.2700	1.0295	.6669	142	104.2673	1.4644	.5272
103	55.2995	1.0412	.6664	143	105.7317	1.4736	.5207
104	56.3407	1.0530	.6658	144	107.2053	1.4826	.5140
105	57.3937	1.0647	.6651	145	108.6879	1.4916	.5073
106	58.4584	1.0764	.6642	146	110.1795	1.5005	.5005
107	59.5348	1.0882	.6632	147	111.6800	1.5092	.4935
108	60.6230	1.0999	.6619	148	113.1892	1.5177	.4863
109	61.7229	1.1115	.6605	149	114.7069	1.5262	.4791
110	62.8344	1.1231	.6589	150	116.2331	1.5346	.4718
111	63.9575	1.1348	.6573	151	117.7677	1.5427	.4643
112	65.0923	1.1463	.6554	152	119.3104	1.5509	.4568
113	66.2386	1.1579	.6533	153	120.8613	1.5587	.4490
114	67.3965	1.1694	.6511	154	122.4200	1.5665	.4412
115	68.5659	1.1808	.6487	155	123.9865	1.5742	.4333
116	69.7467	1.1923	.6462	156	125.5607	1.5817	.4253
117	70.9390	1.2036	.6435	157	127.1424	1.5891	.4172
118	72.1426	1.2149	.6406	158	128.7315	1.5963	.4089
119	73.3575	1.2262	.6377	159	130.3278	1.6034	.4006
120	74.5837	1.2374	.6345	160	131.9312	1.6103	.3921

$e = 46^c$				$e = 47^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	131.9312	1.6103	.3921	0	.0000	.2604	.0000
161	133.5415	1.6170	.3836	1	.2604	.2606	.0107
162	135.1585	1.6237	.3750	2	.5210	.2609	.0213
163	136.7822	1.6302	.3663	3	.7819	.2615	.0320
164	138.4124	1.6364	.3575	4	1.0434	.2622	.0426
165	140.0488	1.6427	.3486	5	1.3056	.2632	.0533
166	141.6915	1.6486	.3396	6	1.5688	.2642	.0639
167	143.3401	1.6544	.3305	7	1.8330	.2655	.0745
168	144.9945	1.6602	.3215	8	2.0985	.2670	.0851
169	146.6547	1.6656	.3122	9	2.3655	.2686	.0956
170	148.3203	1.6710	.3029	10	2.6341	.2704	.1062
171	149.9913	1.6762	.2936	11	2.9045	.2724	.1167
172	151.6675	1.6812	.2841	12	3.1769	.2746	.1272
173	153.3487	1.6861	.2746	13	3.4515	.2769	.1376
174	155.0348	1.6907	.2649	14	3.7284	.2795	.1481
175	156.7255	1.6952	.2553	15	4.0079	.2822	.1585
176	158.4207	1.6996	.2456	16	4.2901	.2851	.1688
177	160.1203	1.7038	.2358	17	4.5752	.2881	.1791
178	161.8241	1.7077	.2260	18	4.8633	.2914	.1894
179	163.5318	1.7115	.2161	19	5.1547	.2948	.1996
180	165.2433	1.7152	.2062	20	5.4495	.2984	.2098
181	166.9585	1.7187	.1962	21	5.7479	.3022	.2199
182	168.6772	1.7219	.1861	22	6.0501	.3060	.2299
183	170.3991	1.7251	.1761	23	6.3561	.3102	.2400
184	172.1242	1.7280	.1659	24	6.6663	.3145	.2499
185	173.8522	1.7307	.1557	25	6.9808	.3189	.2598
186	175.5829	1.7333	.1455	26	7.2997	.3236	.2696
187	177.3162	1.7357	.1353	27	7.6233	.3283	.2793
188	179.0519	1.7379	.1250	28	7.9516	.3333	.2890
189	180.7898	1.7399	.1147	29	8.2849	.3383	.2986
190	182.5297	1.7418	.1044	30	8.6232	.3437	.3082
191	184.2715	1.7434	.0940	31	8.9669	.3491	.3176
192	186.0149	1.7449	.0836	32	9.3160	.3546	.3270
193	187.7598	1.7462	.0732	33	9.6706	.3605	.3364
194	189.5060	1.7473	.0628	34	10.0311	.3663	.3455
195	191.2533	1.7482	.0523	35	10.3974	.3725	.3547
196	193.0015	1.7490	.0419	36	10.7699	.3786	.3637
197	194.7505	1.7495	.0314	37	11.1485	.3850	.3727
198	196.5000	1.7499	.0210	38	11.5335	.3916	.3816
199	198.2499	1.7501	.0105	39	11.9251	.3982	.3903
200	200.0000	1.7501	.0000	40	12.3233	.4051	.3990

$e = 47^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	12.3233	.4051	.3990	80	35.2182	.7770	.6456
41	12.7284	.4120	.4075	81	35.9952	.7880	.6488
42	13.1404	.4192	.4161	82	36.7832	.7993	.6519
43	13.5596	.4264	.4244	83	37.5825	.8104	.6547
44	13.9860	.4338	.4327	84	38.3929	.8217	.6575
45	14.4198	.4414	.4409	85	39.2146	.8330	.6601
46	14.8612	.4491	.4489	86	40.0476	.8443	.6625
47	15.3103	.4569	.4568	87	40.8919	.8558	.6647
48	15.7672	.4648	.4646	88	41.7477	.8671	.6667
49	16.2320	.4729	.4724	89	42.6148	.8785	.6687
50	16.7049	.4811	.4800	90	43.4933	.8901	.6705
51	17.1860	.4895	.4875	91	44.3834	.9015	.6720
52	17.6755	.4980	.4948	92	45.2849	.9131	.6735
53	18.1735	.5065	.5020	93	46.1980	.9246	.6747
54	18.6800	.5152	.5092	94	47.1226	.9362	.6758
55	19.1952	.5241	.5162	95	48.0588	.9477	.6767
56	19.7193	.5331	.5230	96	49.0065	.9594	.6775
57	20.2524	.5421	.5297	97	49.9659	.9710	.6780
58	20.7945	.5512	.5363	98	50.9369	.9825	.6784
59	21.3457	.5606	.5429	99	51.9194	.9942	.6787
60	21.9063	.5700	.5492	100	52.9136	1.0058	.6788
61	22.4763	.5795	.5553	101	53.9194	1.0175	.6787
62	23.0558	.5891	.5614	102	54.9369	1.0290	.6784
63	23.6449	.5988	.5673	103	55.9659	1.0406	.6780
64	24.2437	.6086	.5731	104	57.0065	1.0523	.6775
65	24.8523	.6185	.5787	105	58.0588	1.0638	.6767
66	25.4708	.6285	.5842	106	59.1226	1.0754	.6758
67	26.0993	.6386	.5896	107	60.1980	1.0869	.6747
68	26.7379	.6488	.5948	108	61.2849	1.0985	.6735
69	27.3867	.6590	.5999	109	62.3834	1.1099	.6720
70	28.0457	.6694	.6048	110	63.4933	1.1215	.6705
71	28.7151	.6799	.6096	111	64.6148	1.1329	.6687
72	29.3950	.6903	.6142	112	65.7477	1.1442	.6667
73	30.0853	.7010	.6187	113	66.8919	1.1557	.6647
74	30.7863	.7116	.6229	114	68.0476	1.1670	.6625
75	31.4979	.7223	.6271	115	69.2146	1.1783	.6601
76	32.2202	.7331	.6311	116	70.3929	1.1896	.6575
77	32.9533	.7440	.6350	117	71.5825	1.2007	.6547
78	33.6973	.7550	.6387	118	72.7832	1.2120	.6519
79	34.4523	.7659	.6422	119	73.9952	1.2230	.6488
80	35.2182	.7770	.6456	120	75.2182	1.2341	.6456

$e = 47^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	75.2182	1.2341	.6456	160	132.3233	1.6018	.3990
121	76.4523	1.2450	.6422	161	133.9251	1.6084	.3903
122	77.6973	1.2560	.6387	162	135.5335	1.6150	.3816
123	78.9533	1.2669	.6350	163	137.1485	1.6214	.3727
124	80.2202	1.2777	.6311	164	138.7699	1.6275	.3637
125	81.4979	1.2884	.6271	165	140.3974	1.6337	.3547
126	82.7863	1.2990	.6229	166	142.0311	1.6395	.3455
127	84.0853	1.3097	.6187	167	143.6706	1.6454	.3364
128	85.3950	1.3201	.6142	168	145.3160	1.6509	.3270
129	86.7151	1.3306	.6096	169	146.9669	1.6563	.3176
130	88.0457	1.3410	.6048	170	148.6232	1.6617	.3082
131	89.3867	1.3512	.5999	171	150.2849	1.6667	.2986
132	90.7379	1.3614	.5948	172	151.9516	1.6717	.2890
133	92.0993	1.3715	.5896	173	153.6233	1.6764	.2793
134	93.4708	1.3815	.5842	174	155.2997	1.6811	.2696
135	94.8523	1.3914	.5787	175	156.9808	1.6855	.2598
136	96.2437	1.4012	.5731	176	158.6663	1.6898	.2499
137	97.6449	1.4109	.5673	177	160.3561	1.6940	.2400
138	99.0558	1.4205	.5614	178	162.0501	1.6978	.2299
139	100.4763	1.4300	.5553	179	163.7479	1.7016	.2199
140	101.9063	1.4394	.5492	180	165.4495	1.7052	.2098
141	103.3457	1.4488	.5429	181	167.1547	1.7086	.1996
142	104.7945	1.4579	.5363	182	168.8633	1.7119	.1894
143	106.2524	1.4669	.5297	183	170.5752	1.7149	.1791
144	107.7193	1.4759	.5230	184	172.2901	1.7178	.1688
145	109.1952	1.4848	.5162	185	174.0079	1.7205	.1585
146	110.6800	1.4935	.5092	186	175.7284	1.7231	.1481
147	112.1735	1.5020	.5020	187	177.4515	1.7254	.1376
148	113.6755	1.5105	.4948	188	179.1769	1.7276	.1272
149	115.1860	1.5189	.4875	189	180.9045	1.7296	.1167
150	116.7049	1.5271	.4800	190	182.6341	1.7314	.1062
151	118.2320	1.5352	.4724	191	184.3655	1.7330	.0956
152	119.7672	1.5431	.4646	192	186.0985	1.7345	.0851
153	121.3103	1.5509	.4568	193	187.8330	1.7358	.0745
154	122.8612	1.5586	.4489	194	189.5688	1.7368	.0639
155	124.4198	1.5662	.4409	195	191.3056	1.7378	.0533
156	125.9860	1.5736	.4327	196	193.0434	1.7385	.0426
157	127.5596	1.5808	.4244	197	194.7819	1.7391	.0320
158	129.1404	1.5880	.4161	198	196.5210	1.7394	.0213
159	130.7284	1.5949	.4075	199	198.2604	1.7396	.0107
160	132.3233	1.6018	.3990	200	200.0000	1.7396	.0000

$e = 48^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.2711	.0000	40	12.7223	.4136	.4057
1	.2711	.2712	.0108	41	13.1359	.4206	.4145
2	.5423	.2716	.0217	42	13.5565	.4275	.4230
3	.8139	.2721	.0325	43	13.9840	.4347	.4316
4	1.0860	.2729	.0434	44	14.4187	.4420	.4400
5	1.3589	.2738	.0542	45	14.8607	.4494	.4483
6	1.6327	.2748	.0649	46	15.3101	.4570	.4565
7	1.9075	.2761	.0757	47	15.7671	.4647	.4646
8	2.1836	.2775	.0865	48	16.2318	.4726	.4725
9	2.4611	.2792	.0973	49	16.7044	.4805	.4803
10	2.7403	.2809	.1079	50	17.1849	.4886	.4881
11	3.0212	.2829	.1187	51	17.6735	.4968	.4957
12	3.3041	.2850	.1293	52	18.1703	.5052	.5032
13	3.5891	.2874	.1400	53	18.6755	.5137	.5105
14	3.8765	.2899	.1506	54	19.1892	.5222	.5177
15	4.1664	.2925	.1611	55	19.7114	.5309	.5249
16	4.4589	.2954	.1717	56	20.2423	.5398	.5319
17	4.7543	.2984	.1821	57	20.7821	.5487	.5387
18	5.0527	.3016	.1926	58	21.3308	.5578	.5454
19	5.3543	.3050	.2030	59	21.8886	.5669	.5519
20	5.6593	.3085	.2133	60	22.4555	.5761	.5584
21	5.9678	.3122	.2236	61	23.0316	.5856	.5648
22	6.2800	.3161	.2338	62	23.6172	.5950	.5709
23	6.5961	.3201	.2440	63	24.2122	.6046	.5769
24	6.9162	.3244	.2541	64	24.8168	.6142	.5828
25	7.2406	.3287	.2641	65	25.4310	.6240	.5886
26	7.5693	.3333	.2742	66	26.0550	.6339	.5942
27	7.9026	.3380	.2841	67	26.6889	.6438	.5996
28	8.2406	.3429	.2939	68	27.3327	.6539	.6049
29	8.5835	.3479	.3037	69	27.9866	.6639	.6100
30	8.9314	.3531	.3134	70	28.6505	.6742	.6151
31	9.2845	.3585	.3230	71	29.3247	.6845	.6199
32	9.6430	.3640	.3325	72	30.0092	.6948	.6245
33	10.0070	.3696	.3419	73	30.7040	.7052	.6291
34	10.3766	.3755	.3514	74	31.4092	.7158	.6335
35	10.7521	.3815	.3607	75	32.1250	.7263	.6377
36	11.1336	.3876	.3698	76	32.8513	.7370	.6418
37	11.5212	.3939	.3789	77	33.5883	.7477	.6457
38	11.9151	.4003	.3879	78	34.3360	.7585	.6494
39	12.3154	.4069	.3969	79	35.0945	.7693	.6530
40	12.7223	.4136	.4057	80	35.8638	.7802	.6564

$e = 48^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	35.8638	.7802	.6564	120	75.8638	1.2307	.6564
81	36.6440	.7911	.6597	121	77.0945	1.2415	.6530
82	37.4351	.8021	.6628	122	78.3360	1.2523	.6494
83	38.2372	.8132	.6658	123	79.5883	1.2630	.6457
84	39.0504	.8243	.6686	124	80.8513	1.2737	.6418
85	39.8747	.8354	.6711	125	82.1250	1.2842	.6377
86	40.7101	.8465	.6736	126	83.4092	1.2948	.6335
87	41.5566	.8578	.6759	127	84.7040	1.3052	.6291
88	42.4144	.8691	.6780	128	86.0092	1.3155	.6245
89	43.2835	.8803	.6799	129	87.3247	1.3258	.6199
90	44.1638	.8916	.6817	130	88.6505	1.3361	.6151
91	45.0554	.9030	.6834	131	89.9866	1.3461	.6100
92	45.9584	.9143	.6848	132	91.3327	1.3562	.6049
93	46.8727	.9257	.6860	133	92.6889	1.3661	.5996
94	47.7984	.9371	.6872	134	94.0550	1.3760	.5942
95	48.7355	.9485	.6881	135	95.4310	1.3858	.5886
96	49.6840	.9599	.6889	136	96.8168	1.3954	.5828
97	50.6439	.9714	.6895	137	98.2122	1.4050	.5769
98	51.6153	.9828	.6899	138	99.6172	1.4144	.5709
99	52.5981	.9943	.6902	139	101.0316	1.4239	.5648
100	53.5924	1.0057	.6903	140	102.4555	1.4331	.5584
101	54.5981	1.0172	.6902	141	103.8886	1.4422	.5519
102	55.6153	1.0286	.6899	142	105.3308	1.4513	.5454
103	56.6439	1.0401	.6895	143	106.7821	1.4602	.5387
104	57.6840	1.0515	.6889	144	108.2423	1.4691	.5319
105	58.7355	1.0629	.6881	145	109.7114	1.4778	.5249
106	59.7984	1.0743	.6872	146	111.1892	1.4863	.5177
107	60.8727	1.0857	.6860	147	112.6755	1.4948	.5105
108	61.9584	1.0970	.6848	148	114.1703	1.5032	.5032
109	63.0554	1.1084	.6834	149	115.6735	1.5114	.4957
110	64.1638	1.1197	.6817	150	117.1849	1.5195	.4881
111	65.2835	1.1309	.6799	151	118.7044	1.5274	.4803
112	66.4144	1.1422	.6780	152	120.2318	1.5353	.4725
113	67.5566	1.1535	.6759	153	121.7671	1.5430	.4646
114	68.7101	1.1646	.6736	154	123.3101	1.5506	.4565
115	69.8747	1.1757	.6711	155	124.8607	1.5580	.4483
116	71.0504	1.1868	.6686	156	126.4187	1.5653	.4400
117	72.2372	1.1979	.6658	157	127.9840	1.5725	.4316
118	73.4351	1.2089	.6628	158	129.5565	1.5794	.4230
119	74.6440	1.2198	.6597	159	131.1359	1.5864	.4145
120	75.8638	1.2307	.6564	160	132.7223	1.5931	.4057

$e = 48^c$				$e = 49^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	132.7223	1.5931	.4057	0	.0000	.2819	.0000
161	134.3154	1.5997	.3969	1	.2819	.2821	.0110
162	135.9151	1.6061	.3879	2	.5640	.2824	.0220
163	137.5212	1.6124	.3789	3	.8464	.2830	.0331
164	139.1336	1.6185	.3698	4	1.1294	.2837	.0440
165	140.7521	1.6245	.3607	5	1.4131	.2845	.0550
166	142.3766	1.6304	.3514	6	1.6976	.2856	.0660
167	144.0070	1.6360	.3419	7	1.9832	.2869	.0770
168	145.6430	1.6415	.3325	8	2.2701	.2883	.0879
169	147.2845	1.6469	.3230	9	2.5584	.2898	.0988
170	148.9314	1.6521	.3134	10	2.8482	.2917	.1098
171	150.5835	1.6571	.3037	11	3.1399	.2935	.1206
172	152.2406	1.6620	.2939	12	3.4334	.2957	.1315
173	153.9026	1.6667	.2841	13	3.7291	.2980	.1423
174	155.5693	1.6713	.2742	14	4.0271	.3004	.1530
175	157.2406	1.6756	.2641	15	4.3275	.3031	.1638
176	158.9162	1.6799	.2541	16	4.6306	.3058	.1744
177	160.5961	1.6839	.2440	17	4.9364	.3089	.1851
178	162.2800	1.6878	.2338	18	5.2453	.3120	.1957
179	163.9678	1.6915	.2236	19	5.5573	.3153	.2062
180	165.6593	1.6950	.2133	20	5.8726	.3188	.2167
181	167.3543	1.6984	.2030	21	6.1914	.3224	.2272
182	169.0527	1.7016	.1926	22	6.5138	.3263	.2376
183	170.7543	1.7046	.1821	23	6.8401	.3302	.2479
184	172.4589	1.7075	.1717	24	7.1703	.3344	.2583
185	174.1664	1.7101	.1611	25	7.5047	.3388	.2685
186	175.8765	1.7126	.1506	26	7.8435	.3432	.2786
187	177.5891	1.7150	.1400	27	8.1867	.3478	.2886
188	179.3041	1.7171	.1293	28	8.5345	.3527	.2987
189	181.0212	1.7191	.1187	29	8.8872	.3576	.3086
190	182.7403	1.7208	.1079	30	9.2448	.3627	.3184
191	184.4611	1.7225	.0973	31	9.6075	.3680	.3283
192	186.1836	1.7239	.0865	32	9.9755	.3734	.3380
193	187.9075	1.7252	.0757	33	10.3489	.3791	.3476
194	189.6327	1.7262	.0649	34	10.7280	.3848	.3571
195	191.3589	1.7271	.0542	35	11.1128	.3906	.3665
196	193.0860	1.7279	.0434	36	11.5034	.3967	.3759
197	194.8139	1.7284	.0325	37	11.9001	.4029	.3852
198	196.5423	1.7288	.0217	38	12.3030	.4093	.3944
199	198.2711	1.7289	.0108	39	12.7123	.4157	.4034
200	200.0000	1.7289	.0000	40	13.1280	.4224	.4124



$e = 49^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	13.1280	.4224	.4124	80	36.5202	.7835	.6672
41	13.5504	.4291	.4212	81	37.3037	.7942	.6705
42	13.9795	.4361	.4300	82	38.0979	.8051	.6737
43	14.4156	.4431	.4386	83	38.9030	.8160	.6767
44	14.8587	.4503	.4471	84	39.7190	.8268	.6794
45	15.3090	.4576	.4556	85	40.5458	.8379	.6822
46	15.7666	.4651	.4639	86	41.3837	.8488	.6846
47	16.2317	.4726	.4721	87	42.2325	.8599	.6870
48	16.7043	.4804	.4803	88	43.0924	.8710	.6891
49	17.1847	.4883	.4882	89	43.9634	.8821	.6911
50	17.6730	.4962	.4960	90	44.8455	.8933	.6929
51	18.1692	.5043	.5038	91	45.7388	.9044	.6945
52	18.6735	.5125	.5114	92	46.6432	.9155	.6959
53	19.1860	.5209	.5189	93	47.5587	.9269	.6973
54	19.7069	.5294	.5262	94	48.4856	.9380	.6984
55	20.2363	.5379	.5334	95	49.4236	.9493	.6994
56	20.7742	.5466	.5405	96	50.3729	.9605	.7001
57	21.3208	.5554	.5475	97	51.3334	.9718	.7008
58	21.8762	.5643	.5543	98	52.3052	.9831	.7012
59	22.4405	.5734	.5610	99	53.2883	.9944	.7014
60	23.0139	.5825	.5675	100	54.2827	1.0056	.7015
61	23.5964	.5917	.5739	101	55.2883	1.0169	.7014
62	24.1881	.6010	.5802	102	56.3052	1.0282	.7012
63	24.7891	.6105	.5863	103	57.3334	1.0395	.7008
64	25.3996	.6200	.5923	104	58.3729	1.0507	.7001
65	26.0196	.6296	.5981	105	59.4236	1.0620	.6994
66	26.6492	.6393	.6038	106	60.4856	1.0731	.6984
67	27.2885	.6491	.6093	107	61.5587	1.0845	.6973
68	27.9376	.6590	.6147	108	62.6432	1.0956	.6959
69	28.5966	.6690	.6200	109	63.7388	1.1067	.6945
70	29.2656	.6790	.6250	110	64.8455	1.1179	.6929
71	29.9446	.6891	.6300	111	65.9634	1.1290	.6911
72	30.6337	.6994	.6348	112	67.0924	1.1401	.6891
73	31.3331	.7096	.6393	113	68.2325	1.1512	.6870
74	32.0427	.7200	.6438	114	69.3837	1.1621	.6846
75	32.7627	.7304	.6481	115	70.5458	1.1732	.6822
76	33.4931	.7409	.6523	116	71.7190	1.1840	.6794
77	34.2340	.7514	.6562	117	72.9030	1.1949	.6767
78	34.9854	.7621	.6601	118	74.0979	1.2058	.6737
79	35.7475	.7727	.6637	119	75.3037	1.2165	.6705
80	36.5202	.7835	.6672	120	76.5202	1.2273	.6672

$e = 49^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	76.5202	1.2273	.6672	160	133.1280	1.5843	.4124
121	77.7475	1.2379	.6637	161	134.7123	1.5907	.4034
122	78.9854	1.2486	.6601	162	136.3030	1.5971	.3944
123	80.2340	1.2591	.6562	163	137.9001	1.6033	.3852
124	81.4931	1.2696	.6523	164	139.5034	1.6094	.3759
125	82.7627	1.2800	.6481	165	141.1128	1.6152	.3665
126	84.0427	1.2904	.6438	166	142.7280	1.6209	.3571
127	85.3331	1.3006	.6393	167	144.3489	1.6266	.3476
128	86.6337	1.3109	.6348	168	145.9755	1.6320	.3380
129	87.9446	1.3210	.6300	169	147.6075	1.6373	.3283
130	89.2656	1.3310	.6250	170	149.2448	1.6424	.3184
131	90.5966	1.3410	.6200	171	150.8872	1.6473	.3086
132	91.9376	1.3509	.6147	172	152.5345	1.6522	.2987
133	93.2885	1.3607	.6093	173	154.1867	1.6568	.2886
134	94.6492	1.3704	.6038	174	155.8435	1.6612	.2786
135	96.0196	1.3800	.5981	175	157.5047	1.6656	.2685
136	97.3996	1.3895	.5923	176	159.1703	1.6698	.2583
137	98.7891	1.3990	.5863	177	160.8401	1.6737	.2479
138	100.1881	1.4083	.5802	178	162.5138	1.6776	.2376
139	101.5964	1.4175	.5739	179	164.1914	1.6812	.2272
140	103.0139	1.4266	.5675	180	165.8726	1.6847	.2167
141	104.4405	1.4357	.5610	181	167.5573	1.6880	.2062
142	105.8762	1.4446	.5543	182	169.2453	1.6911	.1957
143	107.3208	1.4534	.5475	183	170.9364	1.6942	.1851
144	108.7742	1.4621	.5405	184	172.6306	1.6969	.1744
145	110.2363	1.4706	.5334	185	174.3275	1.6996	.1638
146	111.7069	1.4791	.5262	186	176.0271	1.7020	.1530
147	113.1860	1.4875	.5189	187	177.7291	1.7043	.1423
148	114.6735	1.4957	.5114	188	179.4334	1.7065	.1315
149	116.1692	1.5038	.5038	189	181.1399	1.7083	.1206
150	117.6730	1.5117	.4960	190	182.8482	1.7102	.1098
151	119.1847	1.5196	.4882	191	184.5584	1.7117	.0988
152	120.7043	1.5274	.4803	192	186.2701	1.7131	.0879
153	122.2317	1.5349	.4721	193	187.9832	1.7144	.0770
154	123.7666	1.5424	.4639	194	189.6976	1.7155	.0660
155	125.3090	1.5497	.4556	195	191.4131	1.7163	.0550
156	126.8587	1.5569	.4471	196	193.1294	1.7170	.0440
157	128.4156	1.5639	.4386	197	194.8464	1.7176	.0331
158	129.9795	1.5709	.4300	198	196.5640	1.7179	.0220
159	131.5504	1.5776	.4212	199	198.2819	1.7181	.0110
160	133.1280	1.5843	.4124	200	200.0000	1.7181	.0000

$e = 50^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.2929	.0000	40	13.5404	.4312	.4188
1	.2929	.2931	.0112	41	13.9716	.4379	.4279
2	.5860	.2935	.0224	42	14.4095	.4447	.4368
3	.8795	.2939	.0335	43	14.8542	.4516	.4456
4	1.1734	.2947	.0448	44	15.3058	.4588	.4543
5	1.4681	.2955	.0559	45	15.7646	.4659	.4628
6	1.7636	.2966	.0671	46	16.2305	.4733	.4713
7	2.0602	.2978	.0782	47	16.7038	.4808	.4796
8	2.3580	.2992	.0893	48	17.1846	.4883	.4878
9	2.6572	.3008	.1004	49	17.6729	.4961	.4959
10	2.9580	.3025	.1115	50	18.1690	.5040	.5039
11	3.2605	.3044	.1225	51	18.6730	.5119	.5117
12	3.5649	.3065	.1335	52	19.1849	.5200	.5195
13	3.8714	.3087	.1445	53	19.7049	.5282	.5271
14	4.1801	.3112	.1555	54	20.2331	.5366	.5346
15	4.4913	.3137	.1663	55	20.7697	.5450	.5419
16	4.8050	.3165	.1772	56	21.3147	.5536	.5491
17	5.1215	.3195	.1881	57	21.8683	.5622	.5561
18	5.4410	.3225	.1988	58	22.4305	.5710	.5631
19	5.7635	.3258	.2096	59	23.0015	.5799	.5699
20	6.0893	.3293	.2203	60	23.5814	.5889	.5766
21	6.4186	.3328	.2308	61	24.1703	.5980	.5831
22	6.7514	.3366	.2414	62	24.7683	.6071	.5894
23	7.0880	.3406	.2519	63	25.3754	.6165	.5957
24	7.4286	.3446	.2623	64	25.9919	.6258	.6017
25	7.7732	.3489	.2727	65	26.6177	.6353	.6076
26	8.1221	.3532	.2830	66	27.2530	.6448	.6134
27	8.4753	.3579	.2933	67	27.8978	.6545	.6191
28	8.8332	.3626	.3034	68	28.5523	.6643	.6245
29	9.1958	.3674	.3135	69	29.2166	.6740	.6298
30	9.5632	.3726	.3236	70	29.8906	.6840	.6350
31	9.9358	.3777	.3334	71	30.5746	.6939	.6399
32	10.3135	.3830	.3433	72	31.2685	.7039	.6448
33	10.6965	.3886	.3531	73	31.9724	.7141	.6495
34	11.0851	.3942	.3627	74	32.6865	.7243	.6540
35	11.4793	.4000	.3723	75	33.4108	.7346	.6584
36	11.8793	.4060	.3819	76	34.1454	.7448	.6625
37	12.2853	.4121	.3912	77	34.8902	.7553	.6667
38	12.6974	.4183	.4005	78	35.6455	.7657	.6705
39	13.1157	.4247	.4097	79	36.4112	.7762	.6742
40	13.5404	.4312	.4188	80	37.1874	.7868	.6778

$e = 50^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	37.1874	.7868	.6778	120	77.1874	1.2238	.6778
81	37.9742	.7974	.6811	121	78.4112	1.2343	.6742
82	38.7716	.8081	.6843	122	79.6455	1.2447	.6705
83	39.5797	.8187	.6873	123	80.8902	1.2552	.6667
84	40.3984	.8296	.6903	124	82.1454	1.2654	.6625
85	41.2280	.8403	.6929	125	83.4108	1.2757	.6584
86	42.0683	.8512	.6955	126	84.6865	1.2859	.6540
87	42.9195	.8620	.6978	127	85.9724	1.2961	.6495
88	43.7815	.8730	.7000	128	87.2685	1.3061	.6448
89	44.6545	.8839	.7020	129	88.5746	1.3160	.6399
90	45.5384	.8949	.7039	130	89.8906	1.3260	.6350
91	46.4333	.9058	.7055	131	91.2166	1.3357	.6298
92	47.3391	.9169	.7071	132	92.5523	1.3455	.6245
93	48.2560	.9280	.7084	133	93.8978	1.3552	.6191
94	49.1840	.9390	.7094	134	95.2530	1.3647	.6134
95	50.1230	.9500	.7104	135	96.6177	1.3742	.6076
96	51.0730	.9612	.7112	136	97.9919	1.3835	.6017
97	52.0342	.9722	.7118	137	99.3754	1.3929	.5957
98	53.0064	.9833	.7123	138	100.7683	1.4020	.5894
99	53.9897	.9945	.7126	139	102.1703	1.4111	.5831
100	54.9842	1.0055	.7126	140	103.5814	1.4201	.5766
101	55.9897	1.0167	.7126	141	105.0015	1.4290	.5699
102	57.0064	1.0278	.7123	142	106.4305	1.4378	.5631
103	58.0342	1.0388	.7118	143	107.8683	1.4464	.5561
104	59.0730	1.0500	.7112	144	109.3147	1.4550	.5491
105	60.1230	1.0610	.7104	145	110.7697	1.4634	.5419
106	61.1840	1.0720	.7094	146	112.2331	1.4718	.5346
107	62.2560	1.0831	.7084	147	113.7049	1.4800	.5271
108	63.3391	1.0942	.7071	148	115.1849	1.4881	.5195
109	64.4333	1.1051	.7055	149	116.6730	1.4960	.5117
110	65.5384	1.1161	.7039	150	118.1690	1.5039	.5039
111	66.6545	1.1270	.7020	151	119.6729	1.5117	.4959
112	67.7815	1.1380	.7000	152	121.1846	1.5192	.4878
113	68.9195	1.1488	.6978	153	122.7038	1.5267	.4796
114	70.0683	1.1597	.6955	154	124.2305	1.5341	.4713
115	71.2280	1.1704	.6929	155	125.7646	1.5412	.4628
116	72.3984	1.1813	.6903	156	127.3058	1.5484	.4543
117	73.5797	1.1919	.6873	157	128.8542	1.5553	.4456
118	74.7716	1.2026	.6843	158	130.4095	1.5621	.4368
119	75.9742	1.2132	.6811	159	131.9716	1.5688	.4279
120	77.1874	1.2238	.6778	160	133.5404	1.5753	.4188

$e = 50^c$				$e = 51^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	133.5404	1.5753	.4188	0	.0000	.3041	.0000
161	135.1157	1.5817	.4097	1	.3041	.3043	.0114
162	136.6974	1.5879	.4005	2	.6084	.3046	.0227
163	138.2853	1.5940	.3912	3	.9130	.3052	.0341
164	139.8793	1.6000	.3819	4	1.2182	.3058	.0454
165	141.4793	1.6058	.3723	5	1.5240	.3067	.0568
166	143.0851	1.6114	.3627	6	1.8307	.3077	.0681
167	144.6965	1.6170	.3531	7	2.1384	.3089	.0794
168	146.3135	1.6223	.3433	8	2.4473	.3103	.0907
169	147.9358	1.6274	.3334	9	2.7576	.3119	.1020
170	149.5632	1.6326	.3236	10	3.0695	.3135	.1131
171	151.1958	1.6374	.3135	11	3.3830	.3154	.1244
172	152.8332	1.6421	.3034	12	3.6984	.3175	.1356
173	154.4753	1.6468	.2933	13	4.0159	.3197	.1467
174	156.1221	1.6511	.2830	14	4.3356	.3220	.1578
175	157.7732	1.6554	.2727	15	4.6576	.3246	.1689
176	159.4286	1.6594	.2623	16	4.9822	.3274	.1800
177	161.0880	1.6634	.2519	17	5.3096	.3302	.1909
178	162.7514	1.6672	.2414	18	5.6398	.3333	.2019
179	164.4186	1.6707	.2308	19	5.9731	.3365	.2127
180	166.0893	1.6742	.2203	20	6.3096	.3398	.2236
181	167.7635	1.6775	.2096	21	6.6494	.3434	.2344
182	169.4410	1.6805	.1988	22	6.9928	.3471	.2451
183	171.1215	1.6835	.1881	23	7.3399	.3510	.2558
184	172.8050	1.6863	.1772	24	7.6909	.3550	.2664
185	174.4913	1.6888	.1663	25	8.0459	.3592	.2769
186	176.1801	1.6913	.1555	26	8.4051	.3635	.2873
187	177.8714	1.6935	.1445	27	8.7686	.3680	.2978
188	179.5649	1.6956	.1335	28	9.1366	.3727	.3081
189	181.2605	1.6975	.1225	29	9.5093	.3775	.3183
190	182.9580	1.6992	.1115	30	9.8868	.3824	.3285
191	184.6572	1.7008	.1004	31	10.2692	.3876	.3386
192	186.3580	1.7022	.0893	32	10.6568	.3928	.3486
193	188.0602	1.7034	.0782	33	11.0496	.3982	.3585
194	189.7636	1.7045	.0671	34	11.4478	.4038	.3684
195	191.4681	1.7053	.0559	35	11.8516	.4096	.3781
196	193.1734	1.7061	.0448	36	12.2612	.4153	.3877
197	194.8795	1.7065	.0335	37	12.6765	.4214	.3973
198	196.5860	1.7069	.0224	38	13.0979	.4275	.4067
199	198.2929	1.7071	.0112	39	13.5254	.4338	.4161
200	200.0000	1.7071	.0000	40	13.9592	.4403	.4253

$e = 51^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	13.9592	.4403	.4253	80	37.8652	.7901	.6881
41	14.3995	.4468	.4344	81	38.6553	.8006	.6916
42	14.8463	.4535	.4434	82	39.4559	.8111	.6949
43	15.2998	.4603	.4524	83	40.2670	.8217	.6980
44	15.7601	.4673	.4612	84	41.0887	.8322	.7008
45	16.2274	.4744	.4699	85	41.9209	.8429	.7036
46	16.7018	.4816	.4785	86	42.7638	.8535	.7061
47	17.1834	.4890	.4870	87	43.6173	.8642	.7085
48	17.6724	.4964	.4953	88	44.4815	.8750	.7108
49	18.1688	.5041	.5036	89	45.3565	.8858	.7128
50	18.6729	.5118	.5117	90	46.2423	.8965	.7146
51	19.1847	.5197	.5196	91	47.1388	.9074	.7163
52	19.7044	.5276	.5274	92	48.0462	.9182	.7178
53	20.2320	.5357	.5352	93	48.9644	.9290	.7192
54	20.7677	.5439	.5427	94	49.8934	.9400	.7204
55	21.3116	.5522	.5502	95	50.8334	.9508	.7213
56	21.8638	.5606	.5575	96	51.7842	.9618	.7222
57	22.4244	.5692	.5647	97	52.7460	.9727	.7228
58	22.9936	.5778	.5717	98	53.7187	.9836	.7232
59	23.5714	.5866	.5786	99	54.7023	.9945	.7235
60	24.1580	.5954	.5853	100	55.6968	1.0055	.7236
61	24.7534	.6043	.5919	101	56.7023	1.0164	.7235
62	25.3577	.6134	.5984	102	57.7187	1.0273	.7232
63	25.9711	.6225	.6047	103	58.7460	1.0382	.7228
64	26.5936	.6317	.6109	104	59.7842	1.0492	.7222
65	27.2253	.6411	.6170	105	60.8334	1.0600	.7213
66	27.8664	.6505	.6228	106	61.8934	1.0710	.7204
67	28.5169	.6599	.6285	107	62.9644	1.0818	.7192
68	29.1768	.6696	.6341	108	64.0462	1.0926	.7178
69	29.8464	.6792	.6394	109	65.1388	1.1035	.7163
70	30.5256	.6889	.6447	110	66.2423	1.1142	.7146
71	31.2145	.6988	.6498	111	67.3565	1.1250	.7128
72	31.9133	.7086	.6547	112	68.4815	1.1358	.7108
73	32.6219	.7186	.6595	113	69.6173	1.1465	.7085
74	33.3405	.7287	.6641	114	70.7638	1.1571	.7061
75	34.0692	.7387	.6685	115	71.9209	1.1678	.7036
76	34.8079	.7490	.6728	116	73.0887	1.1783	.7008
77	35.5569	.7591	.6768	117	74.2670	1.1889	.6980
78	36.3160	.7694	.6808	118	75.4559	1.1994	.6949
79	37.0854	.7798	.6846	119	76.6553	1.2099	.6916
80	37.8652	.7901	.6881	120	77.8652	1.2202	.6881

$e = 51^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	77.8652	1.2202	.6881	160	133.9592	1.5662	.4253
121	79.0854	1.2306	.6846	161	135.5254	1.5725	.4161
122	80.3160	1.2409	.6808	162	137.0979	1.5786	.4067
123	81.5569	1.2510	.6768	163	138.6765	1.5847	.3973
124	82.8079	1.2613	.6728	164	140.2612	1.5904	.3877
125	84.0692	1.2713	.6685	165	141.8516	1.5962	.3781
126	85.3405	1.2814	.6641	166	143.4478	1.6018	.3684
127	86.6219	1.2914	.6595	167	145.0496	1.6072	.3585
128	87.9133	1.3012	.6547	168	146.6568	1.6124	.3486
129	89.2145	1.3111	.6498	169	148.2692	1.6176	.3386
130	90.5256	1.3208	.6447	170	149.8868	1.6225	.3285
131	91.8464	1.3304	.6394	171	151.5093	1.6273	.3183
132	93.1768	1.3401	.6341	172	153.1366	1.6320	.3081
133	94.5169	1.3495	.6285	173	154.7686	1.6365	.2978
134	95.8664	1.3589	.6228	174	156.4051	1.6408	.2873
135	97.2253	1.3683	.6170	175	158.0459	1.6450	.2769
136	98.5936	1.3775	.6109	176	159.6909	1.6490	.2664
137	99.9711	1.3866	.6047	177	161.3399	1.6529	.2558
138	101.3577	1.3957	.5984	178	162.9928	1.6566	.2451
139	102.7534	1.4046	.5919	179	164.6494	1.6602	.2344
140	104.1580	1.4134	.5853	180	166.3096	1.6635	.2236
141	105.5714	1.4222	.5786	181	167.9731	1.6667	.2127
142	106.9936	1.4308	.5717	182	169.6398	1.6698	.2019
143	108.4244	1.4394	.5647	183	171.3096	1.6726	.1909
144	109.8638	1.4478	.5575	184	172.9822	1.6754	.1800
145	111.3116	1.4561	.5502	185	174.6576	1.6780	.1689
146	112.7677	1.4643	.5427	186	176.3356	1.6803	.1578
147	114.2320	1.4724	.5352	187	178.0159	1.6825	.1467
148	115.7044	1.4803	.5274	188	179.6984	1.6846	.1356
149	117.1847	1.4882	.5196	189	181.3830	1.6865	.1244
150	118.6729	1.4959	.5117	190	183.0695	1.6881	.1131
151	120.1688	1.5036	.5036	191	184.7576	1.6897	.1020
152	121.6724	1.5110	.4953	192	186.4473	1.6911	.0907
153	123.1834	1.5184	.4870	193	188.1384	1.6923	.0794
154	124.7018	1.5256	.4785	194	189.8307	1.6933	.0681
155	126.2274	1.5327	.4699	195	191.5240	1.6942	.0568
156	127.7601	1.5397	.4612	196	193.2182	1.6948	.0454
157	129.2998	1.5465	.4524	197	194.9130	1.6954	.0341
158	130.8463	1.5532	.4434	198	196.6084	1.6957	.0227
159	132.3995	1.5597	.4344	199	198.3041	1.6959	.0114
160	133.9592	1.5662	.4253	200	200.0000	1.6959	.0000

$e = 52^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.3155	.0000	40	14.3845	.4494	.4317
1	.3155	.3156	.0115	41	14.8339	.4558	.4409
2	.6311	.3160	.0231	42	15.2897	.4625	.4501
3	.9471	.3165	.0346	43	15.7522	.4691	.4591
4	1.2636	.3172	.0461	44	16.2213	.4760	.4681
5	1.5808	.3180	.0576	45	16.6973	.4830	.4769
6	1.8988	.3190	.0691	46	17.1803	.4901	.4856
7	2.2178	.3202	.0806	47	17.6704	.4973	.4942
8	2.5380	.3216	.0921	48	18.1677	.5047	.5027
9	2.8596	.3230	.1034	49	18.6724	.5122	.5110
10	3.1826	.3248	.1149	50	19.1846	.5197	.5192
11	3.5074	.3266	.1262	51	19.7043	.5275	.5274
12	3.8340	.3286	.1376	52	20.2318	.5354	.5353
13	4.1626	.3308	.1489	53	20.7672	.5432	.5431
14	4.4934	.3331	.1602	54	21.3104	.5514	.5509
15	4.8265	.3357	.1715	55	21.8618	.5595	.5584
16	5.1622	.3383	.1826	56	22.4213	.5678	.5658
17	5.5005	.3412	.1938	57	22.9891	.5762	.5731
18	5.8417	.3441	.2048	58	23.5653	.5847	.5803
19	6.1858	.3474	.2160	59	24.1500	.5933	.5873
20	6.5332	.3506	.2269	60	24.7433	.6020	.5941
21	6.8838	.3541	.2379	61	25.3453	.6108	.6008
22	7.2379	.3578	.2488	62	25.9561	.6197	.6074
23	7.5957	.3616	.2596	63	26.5758	.6287	.6138
24	7.9573	.3655	.2703	64	27.2045	.6378	.6200
25	8.3228	.3696	.2810	65	27.8423	.6469	.6261
26	8.6924	.3740	.2917	66	28.4892	.6562	.6320
27	9.0664	.3783	.3021	67	29.1454	.6655	.6378
28	9.4447	.3829	.3127	68	29.8109	.6749	.6435
29	9.8276	.3877	.3231	69	30.4858	.6845	.6490
30	10.2153	.3925	.3333	70	31.1703	.6940	.6543
31	10.6078	.3976	.3436	71	31.8643	.7037	.6594
32	11.0054	.4027	.3537	72	32.5680	.7134	.6644
33	11.4081	.4081	.3638	73	33.2814	.7232	.6692
34	11.8162	.4135	.3738	74	34.0046	.7331	.6739
35	12.2297	.4192	.3837	75	34.7377	.7430	.6784
36	12.6489	.4249	.3934	76	35.4807	.7530	.6827
37	13.0738	.4308	.4031	77	36.2337	.7631	.6869
38	13.5046	.4369	.4128	78	36.9968	.7732	.6909
39	13.9415	.4430	.4222	79	37.7700	.7833	.6947
40	14.3845	.4494	.4317	80	38.5533	.7936	.6984



$e = 52^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	38.5533	.7936	.6984	120	78.5533	1.2167	.6984
81	39.3469	.8039	.7019	121	79.7700	1.2268	.6947
82	40.1508	.8142	.7051	122	80.9968	1.2369	.6909
83	40.9650	.8245	.7082	123	82.2337	1.2470	.6869
84	41.7895	.8350	.7113	124	83.4807	1.2570	.6827
85	42.6245	.8454	.7140	125	84.7377	1.2669	.6784
86	43.4699	.8559	.7166	126	86.0046	1.2768	.6739
87	44.3258	.8665	.7191	127	87.2814	1.2866	.6692
88	45.1923	.8770	.7213	128	88.5680	1.2963	.6644
89	46.0693	.8876	.7234	129	89.8643	1.3060	.6594
90	46.9569	.8982	.7253	130	91.1703	1.3155	.6543
91	47.8551	.9089	.7270	131	92.4858	1.3251	.6490
92	48.7640	.9196	.7285	132	93.8109	1.3345	.6435
93	49.6836	.9302	.7298	133	95.1454	1.3438	.6378
94	50.6138	.9409	.7310	134	96.4892	1.3531	.6320
95	51.5547	.9517	.7321	135	97.8423	1.3622	.6261
96	52.5064	.9624	.7328	136	99.2045	1.3713	.6200
97	53.4688	.9731	.7335	137	100.5758	1.3803	.6138
98	54.4419	.9839	.7339	138	101.9561	1.3892	.6074
99	55.4258	.9946	.7342	139	103.3453	1.3980	.6008
100	56.4204	1.0054	.7343	140	104.7433	1.4067	.5941
101	57.4258	1.0161	.7342	141	106.1500	1.4153	.5873
102	58.4419	1.0269	.7339	142	107.5653	1.4238	.5803
103	59.4688	1.0376	.7335	143	108.9891	1.4322	.5731
104	60.5064	1.0483	.7328	144	110.4213	1.4405	.5658
105	61.5547	1.0591	.7321	145	111.8618	1.4486	.5584
106	62.6138	1.0698	.7310	146	113.3104	1.4568	.5509
107	63.6836	1.0804	.7298	147	114.7672	1.4646	.5431
108	64.7640	1.0911	.7285	148	116.2318	1.4725	.5353
109	65.8551	1.1018	.7270	149	117.7043	1.4803	.5274
110	66.9569	1.1124	.7253	150	119.1846	1.4878	.5192
111	68.0693	1.1230	.7234	151	120.6724	1.4953	.5110
112	69.1923	1.1335	.7213	152	122.1677	1.5027	.5027
113	70.3258	1.1441	.7191	153	123.6704	1.5099	.4942
114	71.4699	1.1546	.7166	154	125.1803	1.5170	.4856
115	72.6245	1.1650	.7140	155	126.6973	1.5240	.4769
116	73.7895	1.1755	.7113	156	128.2213	1.5309	.4681
117	74.9650	1.1858	.7082	157	129.7522	1.5375	.4591
118	76.1508	1.1961	.7051	158	131.2897	1.5442	.4501
119	77.3469	1.2064	.7019	159	132.8339	1.5506	.4409
120	78.5533	1.2167	.6984	160	134.3845	1.5570	.4317

$e = 52^c$				$e = 53^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	134.3845	1.5570	.4317	0	.0000	.3270	.0000
161	135.9415	1.5631	.4222	1	.3270	.3272	.0117
162	137.5046	1.5692	.4128	2	.6542	.3275	.0234
163	139.0738	1.5751	.4031	3	.9817	.3280	.0351
164	140.6489	1.5808	.3934	4	1.3097	.3287	.0468
165	142.2297	1.5865	.3837	5	1.6384	.3295	.0584
166	143.8162	1.5919	.3738	6	1.9679	.3305	.0701
167	145.4081	1.5973	.3638	7	2.2984	.3317	.0817
168	147.0054	1.6024	.3537	8	2.6301	.3329	.0933
169	148.6078	1.6075	.3436	9	2.9630	.3345	.1050
170	150.2153	1.6123	.3333	10	3.2975	.3361	.1165
171	151.8276	1.6171	.3231	11	3.6336	.3380	.1281
172	153.4447	1.6217	.3127	12	3.9716	.3399	.1396
173	155.0664	1.6260	.3021	13	4.3115	.3421	.1511
174	156.6924	1.6304	.2917	14	4.6536	.3444	.1625
175	158.3228	1.6345	.2810	15	4.9980	.3468	.1739
176	159.9573	1.6384	.2703	16	5.3448	.3495	.1853
177	161.5957	1.6422	.2596	17	5.6943	.3522	.1965
178	163.2379	1.6459	.2488	18	6.0465	.3553	.2079
179	164.8838	1.6494	.2379	19	6.4018	.3583	.2190
180	166.5332	1.6526	.2269	20	6.7601	.3616	.2302
181	168.1858	1.6559	.2160	21	7.1217	.3650	.2412
182	169.8417	1.6588	.2048	22	7.4867	.3686	.2523
183	171.5005	1.6617	.1938	23	7.8553	.3723	.2633
184	173.1622	1.6643	.1826	24	8.2276	.3762	.2742
185	174.8265	1.6669	.1715	25	8.6038	.3803	.2851
186	176.4934	1.6692	.1602	26	8.9841	.3844	.2958
187	178.1626	1.6714	.1489	27	9.3685	.3889	.3066
188	179.8340	1.6734	.1376	28	9.7574	.3933	.3171
189	181.5074	1.6752	.1262	29	10.1507	.3979	.3277
190	183.1826	1.6770	.1149	30	10.5486	.4028	.3382
191	184.8596	1.6784	.1034	31	10.9514	.4077	.3486
192	186.5380	1.6798	.0921	32	11.3591	.4128	.3589
193	188.2178	1.6810	.0806	33	11.7719	.4181	.3691
194	189.8988	1.6820	.0691	34	12.1900	.4234	.3791
195	191.5808	1.6828	.0576	35	12.6134	.4289	.3892
196	193.2636	1.6835	.0461	36	13.0423	.4346	.3992
197	194.9471	1.6840	.0346	37	13.4769	.4405	.4090
198	196.6311	1.6844	.0231	38	13.9174	.4463	.4187
199	198.3155	1.6845	.0115	39	14.3637	.4525	.4283
200	200.0000	1.6845	.0000	40	14.8162	.4586	.4378

$e = 53^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	14.8162	.4586	.4378	80	39.2517	.7971	.7084
41	15.2748	.4650	.4473	81	40.0488	.8071	.7119
42	15.7398	.4715	.4566	82	40.8559	.8173	.7153
43	16.2113	.4781	.4657	83	41.6732	.8276	.7185
44	16.6894	.4848	.4748	84	42.5008	.8377	.7214
45	17.1742	.4917	.4838	85	43.3385	.8480	.7243
46	17.6659	.4987	.4926	86	44.1865	.8584	.7270
47	18.1646	.5058	.5013	87	45.0449	.8687	.7294
48	18.6704	.5130	.5099	88	45.9136	.8791	.7317
49	19.1834	.5204	.5184	89	46.7927	.8895	.7338
50	19.7038	.5279	.5267	90	47.6822	.8999	.7357
51	20.2317	.5354	.5349	91	48.5821	.9104	.7375
52	20.7671	.5432	.5430	92	49.4925	.9209	.7391
53	21.3103	.5510	.5509	93	50.4134	.9314	.7404
54	21.8613	.5589	.5587	94	51.3448	.9420	.7416
55	22.4202	.5669	.5664	95	52.2868	.9524	.7426
56	22.9871	.5751	.5740	96	53.2392	.9631	.7435
57	23.5622	.5834	.5814	97	54.2023	.9735	.7440
58	24.1456	.5917	.5885	98	55.1758	.9842	.7446
59	24.7373	.6001	.5956	99	56.1600	.9947	.7448
60	25.3374	.6087	.6026	100	57.1547	1.0053	.7449
61	25.9461	.6174	.6095	101	58.1600	1.0158	.7448
62	26.5635	.6261	.6161	102	59.1758	1.0265	.7446
63	27.1896	.6349	.6226	103	60.2023	1.0369	.7440
64	27.8245	.6439	.6289	104	61.2392	1.0476	.7435
65	28.4684	.6528	.6351	105	62.2868	1.0580	.7426
66	29.1212	.6620	.6412	106	63.3448	1.0686	.7416
67	29.7832	.6712	.6470	107	64.4134	1.0791	.7404
68	30.4544	.6804	.6527	108	65.4925	1.0896	.7391
69	31.1348	.6898	.6583	109	66.5821	1.1001	.7375
70	31.8246	.6991	.6637	110	67.6822	1.1105	.7357
71	32.5237	.7087	.6690	111	68.7927	1.1209	.7338
72	33.2324	.7182	.6740	112	69.9136	1.1313	.7317
73	33.9506	.7279	.6789	113	71.0449	1.1416	.7294
74	34.6785	.7376	.6836	114	72.1865	1.1520	.7270
75	35.4161	.7473	.6882	115	73.3385	1.1623	.7243
76	36.1634	.7572	.6926	116	74.5008	1.1724	.7214
77	36.9206	.7671	.6968	117	75.6732	1.1827	.7185
78	37.6877	.7770	.7008	118	76.8559	1.1929	.7153
79	38.4647	.7870	.7047	119	78.0488	1.2029	.7119
80	39.2517	.7971	.7084	120	79.2517	1.2130	.7084

$e = 53^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	79.2517	1.2130	.7084	160	134.8162	1.5475	.4378
121	80.4647	1.2230	.7047	161	136.3637	1.5537	.4283
122	81.6877	1.2329	.7008	162	137.9174	1.5595	.4187
123	82.9206	1.2428	.6968	163	139.4769	1.5654	.4090
124	84.1634	1.2527	.6926	164	141.0423	1.5711	.3992
125	85.4161	1.2624	.6882	165	142.6134	1.5766	.3892
126	86.6785	1.2721	.6836	166	144.1900	1.5819	.3791
127	87.9506	1.2818	.6789	167	145.7719	1.5872	.3691
128	89.2324	1.2913	.6740	168	147.3591	1.5923	.3589
129	90.5237	1.3009	.6690	169	148.9514	1.5972	.3486
130	91.8246	1.3102	.6637	170	150.5486	1.6021	.3382
131	93.1348	1.3196	.6583	171	152.1507	1.6067	.3277
132	94.4544	1.3288	.6527	172	153.7574	1.6111	.3171
133	95.7832	1.3380	.6470	173	155.3685	1.6156	.3066
134	97.1212	1.3472	.6412	174	156.9841	1.6197	.2958
135	98.4684	1.3561	.6351	175	158.6038	1.6238	.2851
136	99.8245	1.3651	.6289	176	160.2276	1.6277	.2742
137	101.1896	1.3739	.6226	177	161.8553	1.6314	.2633
138	102.5635	1.3826	.6161	178	163.4867	1.6350	.2523
139	103.9461	1.3913	.6095	179	165.1217	1.6384	.2412
140	105.3374	1.3999	.6026	180	166.7601	1.6417	.2302
141	106.7373	1.4083	.5956	181	168.4018	1.6447	.2190
142	108.1456	1.4166	.5885	182	170.0465	1.6478	.2079
143	109.5622	1.4249	.5814	183	171.6943	1.6505	.1965
144	110.9871	1.4331	.5740	184	173.3448	1.6532	.1853
145	112.4202	1.4411	.5664	185	174.9980	1.6556	.1739
146	113.8613	1.4490	.5587	186	176.6536	1.6579	.1625
147	115.3103	1.4568	.5509	187	178.3115	1.6601	.1511
148	116.7671	1.4646	.5430	188	179.9716	1.6620	.1396
149	118.2317	1.4721	.5349	189	181.6336	1.6639	.1281
150	119.7038	1.4796	.5267	190	183.2975	1.6655	.1165
151	121.1834	1.4870	.5184	191	184.9630	1.6671	.1050
152	122.6704	1.4942	.5099	192	186.6301	1.6683	.0933
153	124.1646	1.5013	.5013	193	188.2984	1.6695	.0817
154	125.6659	1.5083	.4926	194	189.9679	1.6705	.0701
155	127.1742	1.5152	.4838	195	191.6384	1.6713	.0584
156	128.6894	1.5219	.4748	196	193.3097	1.6720	.0468
157	130.2113	1.5285	.4657	197	194.9817	1.6725	.0351
158	131.7398	1.5350	.4566	198	196.6542	1.6728	.0234
159	133.2748	1.5414	.4473	199	198.3270	1.6730	.0117
160	134.8162	1.5475	.4378	200	200.0000	1.6730	.0000

$e = 54^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.3387	.0000	40	15.2540	.4681	.4439
1	.3387	.3389	.0119	41	15.7221	.4743	.4534
2	.6776	.3392	.0237	42	16.1964	.4806	.4629
3	1.0168	.3397	.0356	43	16.6770	.4872	.4723
4	1.3565	.3403	.0474	44	17.1642	.4938	.4814
5	1.6968	.3412	.0593	45	17.6580	.5005	.4905
6	2.0380	.3421	.0711	46	18.1585	.5074	.4995
7	2.3801	.3433	.0829	47	18.6659	.5144	.5083
8	2.7234	.3446	.0947	48	19.1803	.5215	.5170
9	3.0680	.3460	.1064	49	19.7018	.5287	.5256
10	3.4140	.3477	.1182	50	20.2305	.5361	.5341
11	3.7617	.3495	.1299	51	20.7666	.5435	.5424
12	4.1112	.3514	.1415	52	21.3101	.5511	.5506
13	4.4626	.3535	.1531	53	21.8612	.5588	.5586
14	4.8161	.3558	.1647	54	22.4200	.5666	.5665
15	5.1719	.3582	.1763	55	22.9866	.5745	.5743
16	5.5301	.3607	.1878	56	23.5611	.5825	.5819
17	5.8908	.3636	.1993	57	24.1436	.5905	.5894
18	6.2544	.3664	.2107	58	24.7341	.5988	.5968
19	6.6208	.3695	.2221	59	25.3329	.6071	.6040
20	6.9903	.3726	.2333	60	25.9400	.6156	.6111
21	7.3629	.3761	.2447	61	26.5556	.6240	.6179
22	7.7390	.3796	.2558	62	27.1796	.6326	.6246
23	8.1186	.3832	.2669	63	27.8122	.6412	.6312
24	8.5018	.3871	.2780	64	28.4534	.6501	.6377
25	8.8889	.3910	.2890	65	29.1035	.6589	.6440
26	9.2799	.3952	.3000	66	29.7624	.6678	.6501
27	9.6751	.3994	.3108	67	30.4302	.6769	.6561
28	10.0745	.4039	.3216	68	31.1071	.6860	.6619
29	10.4784	.4084	.3323	69	31.7931	.6952	.6675
30	10.8868	.4132	.3429	70	32.4883	.7044	.6729
31	11.3000	.4180	.3534	71	33.1927	.7137	.6782
32	11.7180	.4230	.3638	72	33.9064	.7231	.6834
33	12.1410	.4281	.3742	73	34.6295	.7326	.6884
34	12.5691	.4335	.3845	74	35.3621	.7422	.6932
35	13.0026	.4389	.3946	75	36.1043	.7517	.6978
36	13.4415	.4444	.4047	76	36.8560	.7614	.7023
37	13.8859	.4502	.4147	77	37.6174	.7711	.7065
38	14.3361	.4559	.4245	78	38.3885	.7809	.7106
39	14.7920	.4620	.4343	79	39.1694	.7907	.7146
40	15.2540	.4681	.4439	80	39.9601	.8006	.7183

$e = 54^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	39.9601	.8006	.7183	120	79.9601	1.2093	.7183
81	40.7607	.8105	.7219	121	81.1694	1.2191	.7146
82	41.5712	.8205	.7253	122	82.3885	1.2289	.7106
83	42.3917	.8305	.7285	123	83.6174	1.2386	.7065
84	43.2222	.8406	.7316	124	84.8560	1.2483	.7023
85	44.0628	.8507	.7344	125	86.1043	1.2578	.6978
86	44.9135	.8608	.7371	126	87.3621	1.2674	.6932
87	45.7743	.8710	.7396	127	88.6295	1.2769	.6884
88	46.6453	.8812	.7419	128	89.9064	1.2863	.6834
89	47.5265	.8914	.7440	129	91.1927	1.2956	.6782
90	48.4179	.9017	.7460	130	92.4883	1.3048	.6729
91	49.3196	.9120	.7477	131	93.7931	1.3140	.6675
92	50.2316	.9222	.7493	132	95.1071	1.3231	.6619
93	51.1538	.9326	.7507	133	96.4302	1.3322	.6561
94	52.0864	.9430	.7519	134	97.7624	1.3411	.6501
95	53.0294	.9533	.7529	135	99.1035	1.3499	.6440
96	53.9827	.9636	.7537	136	100.4534	1.3588	.6377
97	54.9463	.9741	.7545	137	101.8122	1.3674	.6312
98	55.9204	.9844	.7549	138	103.1796	1.3760	.6246
99	56.9048	.9948	.7552	139	104.5556	1.3844	.6179
100	57.8996	1.0052	.7553	140	105.9400	1.3929	.6111
101	58.9048	1.0156	.7552	141	107.3329	1.4012	.6040
102	59.9204	1.0259	.7549	142	108.7341	1.4095	.5968
103	60.9463	1.0364	.7545	143	110.1436	1.4175	.5894
104	61.9827	1.0467	.7537	144	111.5611	1.4255	.5819
105	63.0294	1.0570	.7529	145	112.9866	1.4334	.5743
106	64.0864	1.0674	.7519	146	114.4200	1.4412	.5665
107	65.1538	1.0778	.7507	147	115.8612	1.4489	.5586
108	66.2316	1.0880	.7493	148	117.3101	1.4565	.5506
109	67.3196	1.0983	.7477	149	118.7666	1.4639	.5424
110	68.4179	1.1086	.7460	150	120.2305	1.4713	.5341
111	69.5265	1.1188	.7440	151	121.7018	1.4785	.5256
112	70.6453	1.1290	.7419	152	123.1803	1.4856	.5170
113	71.7743	1.1392	.7396	153	124.6659	1.4926	.5083
114	72.9135	1.1493	.7371	154	126.1585	1.4995	.4995
115	74.0628	1.1594	.7344	155	127.6580	1.5062	.4905
116	75.2222	1.1695	.7316	156	129.1642	1.5128	.4814
117	76.3917	1.1795	.7285	157	130.6770	1.5194	.4723
118	77.5712	1.1895	.7253	158	132.1964	1.5257	.4629
119	78.7607	1.1994	.7219	159	133.7221	1.5319	.4534
120	79.9601	1.2093	.7183	160	135.2540	1.5380	.4439

$e = 54^c$				$e = 55^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	135.2540	1.5380	.4439	0	.0000	.3506	.0000
161	136.7920	1.5441	.4343	1	.3506	.3507	.0120
162	138.3361	1.5498	.4245	2	.7013	.3511	.0241
163	139.8859	1.5556	.4147	3	1.0524	.3515	.0360
164	141.4415	1.5611	.4047	4	1.4039	.3522	.0481
165	143.0026	1.5665	.3946	5	1.7561	.3530	.0601
166	144.5691	1.5719	.3845	6	2.1091	.3539	.0720
167	146.1410	1.5770	.3742	7	2.4630	.3551	.0840
168	147.7180	1.5820	.3638	8	2.8181	.3563	.0959
169	149.3000	1.5868	.3534	9	3.1744	.3578	.1079
170	150.8868	1.5916	.3429	10	3.5322	.3594	.1197
171	152.4784	1.5961	.3323	11	3.8916	.3611	.1316
172	154.0745	1.6006	.3216	12	4.2527	.3630	.1434
173	155.6751	1.6048	.3108	13	4.6157	.3651	.1553
174	157.2799	1.6090	.3000	14	4.9808	.3674	.1670
175	158.8889	1.6129	.2890	15	5.3482	.3697	.1787
176	160.5018	1.6168	.2780	16	5.7179	.3722	.1903
177	162.1186	1.6204	.2669	17	6.0901	.3750	.2020
178	163.7390	1.6239	.2558	18	6.4651	.3778	.2135
179	165.3629	1.6274	.2447	19	6.8429	.3807	.2250
180	166.9903	1.6305	.2333	20	7.2236	.3840	.2366
181	168.6208	1.6336	.2221	21	7.6076	.3872	.2479
182	170.2544	1.6364	.2107	22	7.9948	.3907	.2593
183	171.8908	1.6393	.1993	23	8.3855	.3943	.2706
184	173.5301	1.6418	.1878	24	8.7798	.3981	.2818
185	175.1719	1.6442	.1763	25	9.1779	.4020	.2929
186	176.8161	1.6465	.1647	26	9.5799	.4060	.3040
187	178.4626	1.6486	.1531	27	9.9859	.4102	.3150
188	180.1112	1.6505	.1415	28	10.3961	.4146	.3259
189	181.7617	1.6523	.1299	29	10.8107	.4190	.3367
190	183.4140	1.6540	.1182	30	11.2297	.4237	.3475
191	185.0680	1.6554	.1064	31	11.6534	.4284	.3582
192	186.7234	1.6567	.0947	32	12.0818	.4334	.3688
193	188.3801	1.6579	.0829	33	12.5152	.4384	.3792
194	190.0380	1.6588	.0711	34	12.9536	.4436	.3897
195	191.6968	1.6597	.0593	35	13.3972	.4490	.4000
196	193.3565	1.6603	.0474	36	13.8462	.4544	.4101
197	195.0168	1.6608	.0356	37	14.3006	.4600	.4202
198	196.6776	1.6611	.0237	38	14.7606	.4657	.4302
199	198.3387	1.6613	.0119	39	15.2263	.4716	.4402
200	200.0000	1.6613	.0000	40	15.6979	.4776	.4500

$e = 55^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	15.6979	.4776	.4500	80	40.6784	.8042	.7280
41	16.1755	.4838	.4596	81	41.4826	.8139	.7316
42	16.6593	.4900	.4691	82	42.2965	.8237	.7351
43	17.1493	.4963	.4786	83	43.1202	.8336	.7384
44	17.6456	.5029	.4879	84	43.9538	.8434	.7414
45	18.1485	.5095	.4971	85	44.7972	.8534	.7443
46	18.6580	.5162	.5062	86	45.6506	.8633	.7470
47	19.1742	.5231	.5152	87	46.5139	.8733	.7496
48	19.6973	.5301	.5240	88	47.3872	.8833	.7519
49	20.2274	.5372	.5327	89	48.2705	.8934	.7541
50	20.7646	.5444	.5412	90	49.1639	.9034	.7560
51	21.3090	.5517	.5497	91	50.0673	.9136	.7579
52	21.8607	.5591	.5580	92	50.9809	.9236	.7594
53	22.4198	.5667	.5662	93	51.9045	.9338	.7609
54	22.9865	.5744	.5742	94	52.8383	.9440	.7621
55	23.5609	.5821	.5821	95	53.7823	.9541	.7631
56	24.1430	.5900	.5898	96	54.7364	.9644	.7640
57	24.7330	.5979	.5974	97	55.7008	.9745	.7646
58	25.3309	.6060	.6049	98	56.6753	.9847	.7651
59	25.9369	.6142	.6122	99	57.6600	.9949	.7653
60	26.5511	.6224	.6193	100	58.6549	1.0051	.7654
61	27.1735	.6307	.6263	101	59.6600	1.0153	.7653
62	27.8042	.6392	.6331	102	60.6753	1.0255	.7651
63	28.4434	.6477	.6398	103	61.7008	1.0356	.7646
64	29.0911	.6564	.6464	104	62.7364	1.0459	.7640
65	29.7475	.6650	.6526	105	63.7823	1.0560	.7631
66	30.4125	.6738	.6589	106	64.8383	1.0662	.7621
67	31.0863	.6827	.6649	107	65.9045	1.0764	.7609
68	31.7690	.6916	.6708	108	66.9809	1.0864	.7594
69	32.4606	.7006	.6765	109	68.0673	1.0966	.7579
70	33.1612	.7097	.6820	110	69.1639	1.1066	.7560
71	33.8709	.7189	.6874	111	70.2705	1.1167	.7541
72	34.5898	.7281	.6926	112	71.3872	1.1267	.7519
73	35.3179	.7374	.6977	113	72.5139	1.1367	.7496
74	36.0553	.7468	.7025	114	73.6506	1.1466	.7470
75	36.8021	.7562	.7072	115	74.7972	1.1566	.7443
76	37.5583	.7656	.7117	116	75.9538	1.1664	.7414
77	38.3239	.7752	.7161	117	77.1202	1.1763	.7384
78	39.0991	.7849	.7203	118	78.2965	1.1861	.7351
79	39.8840	.7944	.7242	119	79.4826	1.1958	.7316
80	40.6784	.8042	.7280	120	80.6784	1.2056	.7280



$e = 55^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	80.6784	1.2056	.7280	160	135.6979	1.5284	.4500
121	81.8840	1.2151	.7242	161	137.2263	1.5343	.4402
122	83.0991	1.2248	.7203	162	138.7606	1.5400	.4302
123	84.3239	1.2344	.7161	163	140.3006	1.5456	.4202
124	85.5583	1.2438	.7117	164	141.8462	1.5510	.4101
125	86.8021	1.2532	.7072	165	143.3972	1.5564	.4000
126	88.0553	1.2626	.7025	166	144.9536	1.5616	.3897
127	89.3179	1.2719	.6977	167	146.5152	1.5666	.3792
128	90.5898	1.2811	.6926	168	148.0818	1.5716	.3688
129	91.8709	1.2903	.6874	169	149.6534	1.5763	.3582
130	93.1612	1.2994	.6820	170	151.2297	1.5810	.3475
131	94.4606	1.3084	.6765	171	152.8107	1.5854	.3367
132	95.7690	1.3173	.6708	172	154.3961	1.5898	.3259
133	97.0863	1.3262	.6649	173	155.9859	1.5940	.3150
134	98.4125	1.3350	.6589	174	157.5799	1.5980	.3040
135	99.7475	1.3436	.6526	175	159.1779	1.6019	.2929
136	101.0911	1.3523	.6464	176	160.7798	1.6057	.2818
137	102.4434	1.3608	.6398	177	162.3855	1.6093	.2706
138	103.8042	1.3693	.6331	178	163.9948	1.6128	.2593
139	105.1735	1.3776	.6263	179	165.6076	1.6160	.2479
140	106.5511	1.3858	.6193	180	167.2236	1.6193	.2366
141	107.9369	1.3940	.6122	181	168.8429	1.6222	.2250
142	109.3309	1.4021	.6049	182	170.4651	1.6250	.2135
143	110.7330	1.4100	.5974	183	172.0901	1.6278	.2020
144	112.1430	1.4179	.5898	184	173.7179	1.6303	.1903
145	113.5609	1.4256	.5821	185	175.3482	1.6326	.1787
146	114.9865	1.4333	.5742	186	176.9808	1.6349	.1670
147	116.4198	1.4409	.5662	187	178.6157	1.6370	.1553
148	117.8607	1.4483	.5580	188	180.2527	1.6389	.1434
149	119.3090	1.4556	.5497	189	181.8916	1.6406	.1316
150	120.7646	1.4628	.5412	190	183.5322	1.6422	.1197
151	122.2274	1.4699	.5327	191	185.1744	1.6437	.1079
152	123.6973	1.4769	.5240	192	186.8181	1.6449	.0959
153	125.1742	1.4838	.5152	193	188.4630	1.6461	.0840
154	126.6580	1.4905	.5062	194	190.1091	1.6470	.0720
155	128.1485	1.4971	.4971	195	191.7561	1.6478	.0601
156	129.6456	1.5037	.4879	196	193.4039	1.6485	.0481
157	131.1493	1.5100	.4786	197	195.0524	1.6489	.0360
158	132.6593	1.5162	.4691	198	196.7013	1.6493	.0241
159	134.1755	1.5224	.4596	199	198.3506	1.6494	.0120
160	135.6979	1.5284	.4500	200	200.0000	1.6494	.0000

$e = 56^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.3626	.0000	40	16.1479	.4872	.4558
1	.3626	.3628	.0122	41	16.6351	.4933	.4657
2	.7254	.3630	.0243	42	17.1284	.4995	.4753
3	1.0884	.3636	.0366	43	17.6279	.5056	.4848
4	1.4520	.3642	.0487	44	18.1335	.5121	.4944
5	1.8162	.3649	.0608	45	18.6456	.5186	.5037
6	2.1811	.3659	.0730	46	19.1642	.5252	.5128
7	2.5470	.3670	.0851	47	19.6894	.5319	.5219
8	2.9140	.3683	.0972	48	20.2213	.5388	.5309
9	3.2823	.3696	.1092	49	20.7601	.5457	.5397
10	3.6519	.3713	.1214	50	21.3058	.5529	.5484
11	4.0232	.3729	.1333	51	21.8587	.5600	.5569
12	4.3961	.3749	.1453	52	22.4187	.5673	.5653
13	4.7710	.3768	.1572	53	22.9860	.5747	.5736
14	5.1478	.3791	.1692	54	23.5607	.5823	.5817
15	5.5269	.3813	.1810	55	24.1430	.5898	.5897
16	5.9082	.3839	.1929	56	24.7328	.5976	.5975
17	6.2921	.3865	.2046	57	25.3304	.6054	.6052
18	6.6786	.3893	.2164	58	25.9358	.6133	.6127
19	7.0679	.3923	.2281	59	26.5491	.6213	.6201
20	7.4602	.3953	.2396	60	27.1704	.6294	.6273
21	7.8555	.3986	.2512	61	27.7998	.6375	.6344
22	8.2541	.4020	.2627	62	28.4373	.6459	.6414
23	8.6561	.4055	.2741	63	29.0832	.6543	.6482
24	9.0616	.4092	.2855	64	29.7375	.6626	.6547
25	9.4708	.4131	.2968	65	30.4001	.6713	.6613
26	9.8839	.4170	.3080	66	31.0714	.6798	.6675
27	10.3009	.4211	.3191	67	31.7512	.6886	.6736
28	10.7220	.4254	.3302	68	32.4398	.6973	.6795
29	11.1474	.4298	.3412	69	33.1371	.7061	.6853
30	11.5772	.4344	.3521	70	33.8432	.7151	.6910
31	12.0116	.4390	.3628	71	34.5583	.7241	.6964
32	12.4506	.4438	.3736	72	35.2824	.7332	.7017
33	12.8944	.4489	.3843	73	36.0156	.7422	.7067
34	13.3433	.4539	.3947	74	36.7578	.7515	.7117
35	13.7972	.4591	.4052	75	37.5093	.7607	.7164
36	14.2563	.4645	.4156	76	38.2700	.7700	.7210
37	14.7208	.4700	.4258	77	39.0400	.7794	.7254
38	15.1908	.4757	.4359	78	39.8194	.7888	.7296
39	15.6665	.4814	.4459	79	40.6082	.7982	.7336
40	16.1479	.4872	.4558	80	41.4064	.8078	.7376

$e = 56^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	41.4064	.8078	.7376	120	81.4064	1.2018	.7376
81	42.2142	.8174	.7412	121	82.6082	1.2112	.7336
82	43.0316	.8270	.7447	122	83.8194	1.2206	.7296
83	43.8586	.8366	.7480	123	85.0400	1.2300	.7254
84	44.6952	.8463	.7511	124	86.2700	1.2393	.7210
85	45.5415	.8561	.7541	125	87.5093	1.2485	.7164
86	46.3976	.8659	.7568	126	88.7578	1.2578	.7117
87	47.2635	.8756	.7593	127	90.0156	1.2668	.7067
88	48.1391	.8855	.7618	128	91.2824	1.2759	.7017
89	49.0246	.8953	.7639	129	92.5583	1.2849	.6964
90	49.9199	.9053	.7660	130	93.8432	1.2939	.6910
91	50.8252	.9151	.7677	131	95.1371	1.3027	.6853
92	51.7403	.9251	.7694	132	96.4398	1.3114	.6795
93	52.6654	.9350	.7708	133	97.7512	1.3202	.6736
94	53.6004	.9450	.7721	134	99.0714	1.3287	.6675
95	54.5454	.9550	.7731	135	100.4001	1.3374	.6613
96	55.5004	.9650	.7740	136	101.7375	1.3457	.6547
97	56.4654	.9750	.7746	137	103.0832	1.3541	.6482
98	57.4404	.9849	.7751	138	104.4373	1.3625	.6414
99	58.4253	.9950	.7754	139	105.7998	1.3706	.6344
100	59.4203	1.0050	.7755	140	107.1704	1.3787	.6273
101	60.4253	1.0151	.7754	141	108.5491	1.3867	.6201
102	61.4404	1.0250	.7751	142	109.9358	1.3946	.6127
103	62.4654	1.0350	.7746	143	111.3304	1.4024	.6052
104	63.5004	1.0450	.7740	144	112.7328	1.4102	.5975
105	64.5454	1.0550	.7731	145	114.1430	1.4177	.5897
106	65.6004	1.0650	.7721	146	115.5607	1.4253	.5817
107	66.6654	1.0749	.7708	147	116.9860	1.4327	.5736
108	67.7403	1.0849	.7694	148	118.4187	1.4400	.5653
109	68.8252	1.0947	.7677	149	119.8587	1.4471	.5569
110	69.9199	1.1047	.7660	150	121.3058	1.4543	.5484
111	71.0246	1.1145	.7639	151	122.7601	1.4612	.5397
112	72.1391	1.1244	.7618	152	124.2213	1.4681	.5309
113	73.2635	1.1341	.7593	153	125.6894	1.4748	.5219
114	74.3976	1.1439	.7568	154	127.1642	1.4814	.5128
115	75.5415	1.1537	.7541	155	128.6456	1.4879	.5037
116	76.6952	1.1634	.7511	156	130.1335	1.4944	.4944
117	77.8586	1.1730	.7480	157	131.6279	1.5005	.4848
118	79.0316	1.1826	.7447	158	133.1284	1.5067	.4753
119	80.2142	1.1922	.7412	159	134.6351	1.5128	.4657
120	81.4064	1.2018	.7376	160	136.1479	1.5186	.4558

$e = 56^c$				$e = 57^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	136.1479	1.5186	.4558	0	.0000	.3748	.0000
161	137.6665	1.5243	.4459	1	.3748	.3749	.0123
162	139.1908	1.5300	.4359	2	.7497	.3753	.0247
163	140.7208	1.5355	.4258	3	1.1250	.3757	.0370
164	142.2563	1.5409	.4156	4	1.5007	.3763	.0493
165	143.7972	1.5461	.4052	5	1.8770	.3771	.0616
166	145.3433	1.5511	.3947	6	2.2541	.3780	.0739
167	146.8944	1.5562	.3843	7	2.6321	.3791	.0862
168	148.4506	1.5610	.3736	8	3.0112	.3803	.0984
169	150.0116	1.5656	.3628	9	3.3915	.3818	.1107
170	151.5772	1.5702	.3521	10	3.7733	.3832	.1228
171	153.1474	1.5746	.3412	11	4.1565	.3849	.1350
172	154.7220	1.5789	.3302	12	4.5414	.3868	.1472
173	156.3009	1.5830	.3191	13	4.9282	.3888	.1593
174	157.8839	1.5869	.3080	14	5.3170	.3909	.1713
175	159.4708	1.5908	.2968	15	5.7079	.3932	.1833
176	161.0616	1.5945	.2855	16	6.1011	.3956	.1953
177	162.6561	1.5980	.2741	17	6.4967	.3983	.2073
178	164.2541	1.6014	.2627	18	6.8950	.4010	.2191
179	165.8555	1.6047	.2512	19	7.2960	.4038	.2309
180	167.4602	1.6077	.2396	20	7.6998	.4069	.2427
181	169.0679	1.6107	.2281	21	8.1067	.4101	.2544
182	170.6786	1.6135	.2164	22	8.5168	.4134	.2660
183	172.2921	1.6161	.2046	23	8.9302	.4169	.2776
184	173.9082	1.6187	.1929	24	9.3471	.4205	.2891
185	175.5269	1.6209	.1810	25	9.7676	.4243	.3005
186	177.1478	1.6232	.1692	26	10.1919	.4281	.3118
187	178.7710	1.6251	.1572	27	10.6200	.4322	.3232
188	180.3961	1.6271	.1453	28	11.0522	.4364	.3344
189	182.0232	1.6287	.1333	29	11.4886	.4407	.3455
190	183.6519	1.6304	.1214	30	11.9293	.4451	.3565
191	185.2823	1.6317	.1092	31	12.3744	.4498	.3675
192	186.9140	1.6330	.0972	32	12.8242	.4545	.3783
193	188.5470	1.6341	.0851	33	13.2787	.4593	.3891
194	190.1811	1.6351	.0730	34	13.7380	.4644	.3998
195	191.8162	1.6358	.0608	35	14.2024	.4695	.4103
196	193.4520	1.6364	.0487	36	14.6719	.4747	.4207
197	195.0884	1.6370	.0366	37	15.1466	.4801	.4311
198	196.7254	1.6372	.0243	38	15.6267	.4857	.4414
199	198.3626	1.6374	.0122	39	16.1124	.4913	.4515
200	200.0000	1.6374	.0000	40	16.6037	.4971	.4616

$e = 57^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	16.6037	.4971	.4616	80	42.1440	.8114	.7468
41	17.1008	.5029	.4715	81	42.9554	.8209	.7506
42	17.6037	.5090	.4814	82	43.7763	.8303	.7541
43	18.1127	.5152	.4910	83	44.6066	.8397	.7575
44	18.6279	.5214	.5005	84	45.4463	.8493	.7607
45	19.1493	.5277	.5100	85	46.2956	.8588	.7636
46	19.6770	.5343	.5194	86	47.1544	.8684	.7664
47	20.2113	.5409	.5285	87	48.0228	.8781	.7690
48	20.7522	.5476	.5375	88	48.9009	.8876	.7714
49	21.2998	.5544	.5465	89	49.7885	.8974	.7736
50	21.8542	.5614	.5553	90	50.6859	.9070	.7756
51	22.4156	.5684	.5639	91	51.5929	.9168	.7775
52	22.9840	.5756	.5725	92	52.5097	.9265	.7791
53	23.5596	.5828	.5808	93	53.4362	.9363	.7806
54	24.1424	.5903	.5891	94	54.3725	.9460	.7818
55	24.7327	.5976	.5971	95	55.3185	.9559	.7829
56	25.3303	.6053	.6051	96	56.2744	.9656	.7837
57	25.9356	.6129	.6129	97	57.2400	.9755	.7844
58	26.5485	.6207	.6205	98	58.2155	.9852	.7849
59	27.1692	.6285	.6280	99	59.2007	.9951	.7852
60	27.7977	.6365	.6354	100	60.1958	1.0049	.7853
61	28.4342	.6445	.6425	101	61.2007	1.0148	.7852
62	29.0787	.6527	.6495	102	62.2155	1.0245	.7849
63	29.7314	.6608	.6563	103	63.2400	1.0344	.7844
64	30.3922	.6692	.6631	104	64.2744	1.0441	.7837
65	31.0614	.6775	.6695	105	65.3185	1.0540	.7829
66	31.7389	.6859	.6759	106	66.3725	1.0637	.7818
67	32.4248	.6945	.6822	107	67.4362	1.0735	.7806
68	33.1193	.7031	.6882	108	68.5097	1.0832	.7791
69	33.8224	.7118	.6941	109	69.5929	1.0930	.7775
70	34.5342	.7205	.6997	110	70.6859	1.1026	.7756
71	35.2547	.7294	.7053	111	71.7885	1.1124	.7736
72	35.9841	.7382	.7106	112	72.9009	1.1219	.7714
73	36.7223	.7472	.7158	113	74.0228	1.1316	.7690
74	37.4695	.7562	.7207	114	75.1544	1.1412	.7664
75	38.2257	.7653	.7256	115	76.2956	1.1507	.7636
76	38.9910	.7744	.7302	116	77.4463	1.1603	.7607
77	39.7654	.7836	.7346	117	78.6066	1.1697	.7575
78	40.5490	.7928	.7389	118	79.7763	1.1791	.7541
79	41.3418	.8022	.7430	119	80.9554	1.1886	.7506
80	42.1440	.8114	.7468	120	82.1440	1.1978	.7468

$e = 57^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	82.1440	1.1978	.7468	160	136.6037	1.5087	.4616
121	83.3418	1.2072	.7430	161	138.1124	1.5143	.4515
122	84.5490	1.2164	.7389	162	139.6267	1.5199	.4414
123	85.7654	1.2256	.7346	163	141.1466	1.5253	.4311
124	86.9910	1.2347	.7302	164	142.6719	1.5305	.4207
125	88.2257	1.2438	.7256	165	144.2024	1.5356	.4103
126	89.4695	1.2528	.7207	166	145.7380	1.5407	.3998
127	90.7223	1.2618	.7158	167	147.2787	1.5455	.3891
128	91.9841	1.2706	.7106	168	148.8242	1.5502	.3783
129	93.2547	1.2795	.7053	169	150.3744	1.5549	.3675
130	94.5342	1.2882	.6997	170	151.9293	1.5593	.3565
131	95.8224	1.2969	.6941	171	153.4886	1.5636	.3455
132	97.1193	1.3055	.6882	172	155.0522	1.5678	.3344
133	98.4248	1.3141	.6822	173	156.6200	1.5719	.3232
134	99.7389	1.3225	.6759	174	158.1919	1.5757	.3118
135	101.0614	1.3308	.6695	175	159.7676	1.5795	.3005
136	102.3922	1.3392	.6631	176	161.3471	1.5831	.2891
137	103.7314	1.3473	.6563	177	162.9302	1.5866	.2776
138	105.0787	1.3555	.6495	178	164.5168	1.5899	.2660
139	106.4342	1.3635	.6425	179	166.1067	1.5931	.2544
140	107.7977	1.3715	.6354	180	167.6998	1.5962	.2427
141	109.1692	1.3793	.6280	181	169.2960	1.5990	.2309
142	110.5485	1.3871	.6205	182	170.8950	1.6017	.2191
143	111.9356	1.3947	.6129	183	172.4967	1.6044	.2073
144	113.3303	1.4024	.6051	184	174.1011	1.6068	.1953
145	114.7327	1.4097	.5971	185	175.7079	1.6091	.1833
146	116.1424	1.4172	.5891	186	177.3170	1.6112	.1713
147	117.5596	1.4244	.5808	187	178.9282	1.6132	.1593
148	118.9840	1.4316	.5725	188	180.5414	1.6151	.1472
149	120.4156	1.4386	.5639	189	182.1565	1.6168	.1350
150	121.8542	1.4456	.5553	190	183.7733	1.6182	.1228
151	123.2998	1.4524	.5465	191	185.3915	1.6197	.1107
152	124.7522	1.4591	.5375	192	187.0112	1.6209	.0984
153	126.2113	1.4657	.5285	193	188.6321	1.6220	.0862
154	127.6770	1.4723	.5194	194	190.2541	1.6229	.0739
155	129.1493	1.4786	.5100	195	191.8770	1.6237	.0616
156	130.6279	1.4848	.5005	196	193.5007	1.6243	.0493
157	132.1127	1.4910	.4910	197	195.1250	1.6247	.0370
158	133.6037	1.4971	.4814	198	196.7497	1.6251	.0247
159	135.1008	1.5029	.4715	199	198.3748	1.6252	.0123
160	136.6037	1.5087	.4616	200	200.0000	1.6252	.0000

$e = 58^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.3871	.0000	40	17.0653	.5070	.4672
1	.3871	.3873	.0125	41	17.5723	.5128	.4773
2	.7744	.3876	.0250	42	18.0851	.5186	.4872
3	1.1620	.3880	.0374	43	18.6037	.5247	.4971
4	1.5500	.3886	.0499	44	19.1284	.5309	.5067
5	1.9386	.3894	.0624	45	19.6593	.5371	.5162
6	2.3280	.3903	.0748	46	20.1964	.5434	.5257
7	2.7183	.3913	.0872	47	20.7398	.5499	.5350
8	3.1096	.3926	.0997	48	21.2897	.5566	.5442
9	3.5022	.3939	.1120	49	21.8463	.5632	.5532
10	3.8961	.3954	.1244	50	22.4095	.5700	.5621
11	4.2915	.3971	.1367	51	22.9795	.5770	.5709
12	4.6886	.3989	.1489	52	23.5565	.5839	.5794
13	5.0875	.4008	.1612	53	24.1404	.5911	.5880
14	5.4883	.4029	.1734	54	24.7315	.5983	.5963
15	5.8912	.4052	.1856	55	25.3298	.6056	.6045
16	6.2964	.4076	.1977	56	25.9354	.6131	.6125
17	6.7040	.4101	.2097	57	26.5485	.6205	.6204
18	7.1141	.4128	.2218	58	27.1690	.6282	.6282
19	7.5269	.4156	.2337	59	27.7972	.6359	.6357
20	7.9425	.4186	.2457	60	28.4331	.6436	.6431
21	8.3611	.4217	.2575	61	29.0767	.6515	.6504
22	8.7828	.4250	.2693	62	29.7282	.6595	.6575
23	9.2078	.4284	.2810	63	30.3877	.6676	.6645
24	9.6362	.4319	.2926	64	31.0553	.6756	.6712
25	10.0681	.4356	.3042	65	31.7309	.6839	.6778
26	10.5037	.4395	.3157	66	32.4148	.6922	.6842
27	10.9432	.4434	.3271	67	33.1070	.7005	.6905
28	11.3866	.4475	.3384	68	33.8075	.7090	.6966
29	11.8341	.4517	.3497	69	34.5165	.7174	.7025
30	12.2858	.4561	.3609	70	35.2339	.7261	.7083
31	12.7419	.4606	.3720	71	35.9600	.7347	.7138
32	13.2025	.4653	.3830	72	36.6947	.7434	.7192
33	13.6678	.4700	.3938	73	37.4381	.7521	.7245
34	14.1378	.4749	.4046	74	38.1902	.7611	.7296
35	14.6127	.4799	.4153	75	38.9513	.7699	.7344
36	15.0926	.4851	.4260	76	39.7212	.7788	.7391
37	15.5777	.4904	.4365	77	40.5000	.7879	.7436
38	16.0681	.4958	.4469	78	41.2879	.7969	.7479
39	16.5639	.5014	.4571	79	42.0848	.8060	.7521
40	17.0653	.5070	.4672	80	42.8908	.8152	.7561

$e = 58^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	42.8908	.8152	.7561	120	82.8908	1.1940	.7561
81	43.7060	.8244	.7598	121	84.0848	1.2031	.7521
82	44.5304	.8337	.7634	122	85.2879	1.2121	.7479
83	45.3641	.8429	.7667	123	86.5000	1.2212	.7436
84	46.2070	.8522	.7699	124	87.7212	1.2301	.7391
85	47.0592	.8616	.7730	125	88.9513	1.2389	.7344
86	47.9208	.8710	.7758	126	90.1902	1.2479	.7296
87	48.7918	.8805	.7784	127	91.4381	1.2566	.7245
88	49.6723	.8898	.7808	128	92.6947	1.2653	.7192
89	50.5621	.8994	.7831	129	93.9600	1.2739	.7138
90	51.4615	.9089	.7852	130	95.2339	1.2826	.7083
91	52.3704	.9184	.7870	131	96.5165	1.2910	.7025
92	53.2888	.9280	.7887	132	97.8075	1.2995	.6966
93	54.2168	.9375	.7901	133	99.1070	1.3078	.6905
94	55.1543	.9471	.7914	134	100.4148	1.3161	.6842
95	56.1014	.9567	.7925	135	101.7309	1.3244	.6778
96	57.0581	.9663	.7934	136	103.0553	1.3324	.6712
97	58.0244	.9760	.7941	137	104.3877	1.3405	.6645
98	59.0004	.9855	.7945	138	105.7282	1.3485	.6575
99	59.9859	.9952	.7949	139	107.0767	1.3564	.6504
100	60.9811	1.0048	.7950	140	108.4331	1.3641	.6431
101	61.9859	1.0145	.7949	141	109.7972	1.3718	.6357
102	63.0004	1.0240	.7945	142	111.1690	1.3795	.6282
103	64.0244	1.0337	.7941	143	112.5485	1.3869	.6204
104	65.0581	1.0433	.7934	144	113.9354	1.3944	.6125
105	66.1014	1.0529	.7925	145	115.3298	1.4017	.6045
106	67.1543	1.0625	.7914	146	116.7315	1.4089	.5963
107	68.2168	1.0720	.7901	147	118.1404	1.4161	.5880
108	69.2888	1.0816	.7887	148	119.5565	1.4230	.5794
109	70.3704	1.0911	.7870	149	120.9795	1.4300	.5709
110	71.4615	1.1006	.7852	150	122.4095	1.4368	.5621
111	72.5621	1.1102	.7831	151	123.8463	1.4434	.5532
112	73.6723	1.1195	.7808	152	125.2897	1.4501	.5442
113	74.7918	1.1290	.7784	153	126.7398	1.4566	.5350
114	75.9208	1.1384	.7758	154	128.1964	1.4629	.5257
115	77.0592	1.1478	.7730	155	129.6593	1.4691	.5162
116	78.2070	1.1571	.7699	156	131.1284	1.4753	.5067
117	79.3641	1.1663	.7667	157	132.6037	1.4814	.4971
118	80.5304	1.1756	.7634	158	134.0851	1.4872	.4872
119	81.7060	1.1848	.7598	159	135.5723	1.4930	.4773
120	82.8908	1.1940	.7561	160	137.0653	1.4986	.4672



$e = 58^c$				$e = 59^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	137.0653	1.4986	.4672	0	.0000	.3996	.0000
161	138.5639	1.5042	.4571	1	.3996	.3998	.0126
162	140.0681	1.5096	.4469	2	.7994	.4000	.0252
163	141.5777	1.5149	.4365	3	1.1994	.4005	.0379
164	143.0926	1.5201	.4260	4	1.5999	.4011	.0505
165	144.6127	1.5251	.4153	5	2.0010	.4018	.0631
166	146.1378	1.5300	.4046	6	2.4028	.4027	.0757
167	147.6678	1.5347	.3938	7	2.8055	.4038	.0883
168	149.2025	1.5394	.3830	8	3.2093	.4049	.1008
169	150.7419	1.5439	.3720	9	3.6142	.4063	.1133
170	152.2858	1.5483	.3609	10	4.0205	.4077	.1258
171	153.8341	1.5525	.3497	11	4.4282	.4093	.1383
172	155.3866	1.5566	.3384	12	4.8375	.4112	.1508
173	156.9432	1.5605	.3271	13	5.2487	.4130	.1631
174	158.5037	1.5644	.3157	14	5.6617	.4151	.1755
175	160.0681	1.5681	.3042	15	6.0768	.4173	.1878
176	161.6362	1.5716	.2926	16	6.4941	.4196	.2000
177	163.2078	1.5750	.2810	17	6.9137	.4222	.2123
178	164.7828	1.5783	.2693	18	7.3359	.4247	.2244
179	166.3611	1.5814	.2575	19	7.7606	.4276	.2365
180	167.9425	1.5844	.2457	20	8.1882	.4304	.2485
181	169.5269	1.5872	.2337	21	8.6186	.4335	.2605
182	171.1141	1.5899	.2218	22	9.0521	.4367	.2725
183	172.7040	1.5924	.2097	23	9.4888	.4400	.2843
184	174.2964	1.5948	.1977	24	9.9288	.4435	.2961
185	175.8912	1.5971	.1856	25	10.3723	.4471	.3078
186	177.4883	1.5992	.1734	26	10.8194	.4509	.3195
187	179.0875	1.6011	.1612	27	11.2703	.4547	.3310
188	180.6886	1.6029	.1489	28	11.7250	.4588	.3425
189	182.2915	1.6046	.1367	29	12.1838	.4629	.3539
190	183.8961	1.6061	.1244	30	12.6467	.4672	.3652
191	185.5022	1.6074	.1120	31	13.1139	.4716	.3764
192	187.1096	1.6087	.0997	32	13.5855	.4761	.3875
193	188.7183	1.6097	.0872	33	14.0616	.4808	.3985
194	190.3280	1.6106	.0748	34	14.5424	.4856	.4095
195	191.9386	1.6114	.0624	35	15.0280	.4906	.4203
196	193.5500	1.6120	.0499	36	15.5186	.4956	.4310
197	195.1620	1.6124	.0374	37	16.0142	.5008	.4416
198	196.7744	1.6127	.0250	38	16.5150	.5060	.4521
199	198.3871	1.6129	.0125	39	17.0210	.5115	.4625
200	200.0000	1.6129	.0000	40	17.5325	.5171	.4728

$e = 59^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	17.5325	.5171	.4728	80	43.6469	.8189	.7650
41	18.0496	.5227	.4829	81	44.4658	.8280	.7688
42	18.5723	.5285	.4930	82	45.2938	.8370	.7724
43	19.1008	.5343	.5029	83	46.1308	.8461	.7759
44	19.6351	.5404	.5128	84	46.9769	.8553	.7791
45	20.1755	.5466	.5224	85	47.8322	.8644	.7821
46	20.7221	.5527	.5319	86	48.6966	.8736	.7850
47	21.2748	.5591	.5414	87	49.5702	.8829	.7877
48	21.8339	.5656	.5506	88	50.4531	.8921	.7901
49	22.3995	.5721	.5597	89	51.3452	.9015	.7924
50	22.9716	.5788	.5688	90	52.2467	.9107	.7944
51	23.5504	.5855	.5776	91	53.1574	.9201	.7963
52	24.1359	.5925	.5864	92	54.0775	.9294	.7980
53	24.7284	.5994	.5949	93	55.0069	.9388	.7995
54	25.3278	.6065	.6034	94	55.9457	.9482	.8008
55	25.9343	.6136	.6116	95	56.8939	.9576	.8019
56	26.5479	.6210	.6198	96	57.8515	.9670	.8028
57	27.1689	.6283	.6277	97	58.8185	.9764	.8035
58	27.7972	.6357	.6355	98	59.7949	.9859	.8040
59	28.4329	.6433	.6432	99	60.7808	.9953	.8042
60	29.0762	.6509	.6507	100	61.7761	1.0047	.8043
61	29.7271	.6586	.6581	101	62.7808	1.0141	.8042
62	30.3857	.6665	.6653	102	63.7949	1.0236	.8040
63	31.0522	.6743	.6722	103	64.8185	1.0330	.8035
64	31.7265	.6822	.6791	104	65.8515	1.0424	.8028
65	32.4087	.6903	.6859	105	66.8939	1.0518	.8019
66	33.0990	.6985	.6924	106	67.9457	1.0612	.8008
67	33.7975	.7066	.6987	107	69.0069	1.0706	.7995
68	34.5041	.7149	.7049	108	70.0775	1.0799	.7980
69	35.2190	.7232	.7109	109	71.1574	1.0893	.7963
70	35.9422	.7316	.7167	110	72.2467	1.0985	.7944
71	36.6738	.7401	.7224	111	73.3452	1.1079	.7924
72	37.4139	.7487	.7279	112	74.4531	1.1171	.7901
73	38.1626	.7572	.7331	113	75.5702	1.1264	.7877
74	38.9198	.7659	.7382	114	76.6966	1.1356	.7850
75	39.6857	.7746	.7431	115	77.8322	1.1447	.7821
76	40.4603	.7833	.7479	116	78.9769	1.1539	.7791
77	41.2436	.7922	.7525	117	80.1308	1.1630	.7759
78	42.0358	.8011	.7568	118	81.2938	1.1720	.7724
79	42.8369	.8100	.7610	119	82.4658	1.1811	.7688
80	43.6469	.8189	.7650	120	83.6469	1.1900	.7650

$e = 59^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	83.6469	1.1900	.7650	160	137.5325	1.4885	.4728
121	84.8369	1.1989	.7610	161	139.0210	1.4940	.4625
122	86.0358	1.2078	.7568	162	140.5150	1.4992	.4521
123	87.2436	1.2167	.7525	163	142.0142	1.5044	.4416
124	88.4603	1.2254	.7479	164	143.5186	1.5094	.4310
125	89.6857	1.2341	.7431	165	145.0280	1.5144	.4203
126	90.9198	1.2428	.7382	166	146.5424	1.5192	.4095
127	92.1626	1.2513	.7331	167	148.0616	1.5239	.3985
128	93.4139	1.2599	.7279	168	149.5855	1.5284	.3875
129	94.6738	1.2684	.7224	169	151.1139	1.5328	.3764
130	95.9422	1.2768	.7167	170	152.6467	1.5371	.3652
131	97.2190	1.2851	.7109	171	154.1838	1.5412	.3539
132	98.5041	1.2934	.7049	172	155.7250	1.5453	.3425
133	99.7975	1.3015	.6987	173	157.2703	1.5491	.3310
134	101.0990	1.3097	.6924	174	158.8194	1.5529	.3195
135	102.4087	1.3178	.6859	175	160.3723	1.5565	.3078
136	103.7265	1.3257	.6791	176	161.9288	1.5600	.2961
137	105.0522	1.3335	.6722	177	163.4888	1.5633	.2843
138	106.3857	1.3414	.6653	178	165.0521	1.5665	.2725
139	107.7271	1.3491	.6581	179	166.6186	1.5696	.2605
140	109.0762	1.3567	.6507	180	168.1882	1.5724	.2485
141	110.4329	1.3643	.6432	181	169.7606	1.5753	.2365
142	111.7972	1.3717	.6355	182	171.3359	1.5778	.2244
143	113.1689	1.3790	.6277	183	172.9137	1.5804	.2123
144	114.5479	1.3864	.6198	184	174.4941	1.5827	.2000
145	115.9343	1.3935	.6116	185	176.0768	1.5849	.1878
146	117.3278	1.4006	.6034	186	177.6617	1.5870	.1755
147	118.7284	1.4075	.5949	187	179.2487	1.5888	.1631
148	120.1359	1.4145	.5864	188	180.8375	1.5907	.1508
149	121.5504	1.4212	.5776	189	182.4282	1.5923	.1383
150	122.9716	1.4279	.5688	190	184.0205	1.5937	.1258
151	124.3995	1.4344	.5597	191	185.6142	1.5951	.1133
152	125.8339	1.4409	.5506	192	187.2093	1.5962	.1008
153	127.2748	1.4473	.5414	193	188.8055	1.5973	.0883
154	128.7221	1.4534	.5319	194	190.4028	1.5982	.0757
155	130.1755	1.4596	.5224	195	192.0010	1.5989	.0631
156	131.6351	1.4657	.5128	196	193.5999	1.5995	.0505
157	133.1008	1.4715	.5029	197	195.1994	1.6000	.0379
158	134.5723	1.4773	.4930	198	196.7994	1.6002	.0252
159	136.0496	1.4829	.4829	199	198.3996	1.6004	.0126
160	137.5325	1.4885	.4728	200	200.0000	1.6004	.0000

$e = 60^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.4122	.0000	40	18.0053	.5272	.4782
1	.4122	.4124	.0128	41	18.5325	.5328	.4885
2	.8246	.4127	.0256	42	19.0653	.5384	.4986
3	1.2373	.4131	.0383	43	19.6037	.5442	.5087
4	1.6504	.4137	.0511	44	20.1479	.5500	.5186
5	2.0641	.4144	.0638	45	20.6979	.5561	.5284
6	2.4785	.4153	.0766	46	21.2540	.5622	.5380
7	2.8938	.4163	.0893	47	21.8162	.5683	.5475
8	3.3101	.4174	.1020	48	22.3845	.5747	.5570
9	3.7275	.4188	.1147	49	22.9592	.5812	.5662
10	4.1463	.4202	.1273	50	23.5404	.5876	.5753
11	4.5665	.4218	.1399	51	24.1280	.5943	.5843
12	4.9883	.4235	.1524	52	24.7223	.6010	.5931
13	5.4118	.4254	.1650	53	25.3233	.6079	.6018
14	5.8372	.4274	.1775	54	25.9312	.6147	.6103
15	6.2646	.4295	.1899	55	26.5459	.6218	.6187
16	6.6941	.4319	.2024	56	27.1677	.6289	.6269
17	7.1260	.4343	.2147	57	27.7966	.6361	.6350
18	7.5603	.4368	.2270	58	28.4327	.6434	.6429
19	7.9971	.4396	.2393	59	29.0761	.6508	.6507
20	8.4367	.4424	.2514	60	29.7269	.6583	.6582
21	8.8791	.4455	.2636	61	30.3852	.6658	.6656
22	9.3246	.4485	.2756	62	31.0510	.6734	.6729
23	9.7731	.4518	.2876	63	31.7244	.6812	.6801
24	10.2249	.4552	.2995	64	32.4056	.6890	.6870
25	10.6801	.4588	.3114	65	33.0946	.6968	.6937
26	11.1389	.4624	.3231	66	33.7914	.7048	.7003
27	11.6013	.4662	.3348	67	34.4962	.7128	.7067
28	12.0675	.4702	.3464	68	35.2090	.7209	.7129
29	12.5377	.4742	.3579	69	35.9299	.7290	.7190
30	13.0119	.4784	.3693	70	36.6589	.7373	.7249
31	13.4903	.4827	.3807	71	37.3962	.7456	.7306
32	13.9730	.4871	.3919	72	38.1418	.7539	.7361
33	14.4601	.4918	.4032	73	38.8957	.7623	.7415
34	14.9519	.4964	.4141	74	39.6580	.7708	.7467
35	15.4483	.5013	.4251	75	40.4288	.7794	.7517
36	15.9496	.5062	.4359	76	41.2082	.7879	.7564
37	16.4558	.5113	.4467	77	41.9961	.7965	.7611
38	16.9671	.5164	.4573	78	42.7926	.8053	.7655
39	17.4835	.5218	.4679	79	43.5979	.8140	.7697
40	18.0053	.5272	.4782	80	44.4119	.8227	.7738

$e = 60^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	44.4119	.8227	.7738	120	84.4119	1.1860	.7738
81	45.2346	.8316	.7777	121	85.5979	1.1947	.7697
82	46.0662	.8405	.7813	122	86.7926	1.2035	.7655
83	46.9067	.8493	.7847	123	87.9961	1.2121	.7611
84	47.7560	.8583	.7881	124	89.2082	1.2206	.7564
85	48.6143	.8673	.7912	125	90.4288	1.2292	.7517
86	49.4816	.8763	.7940	126	91.6580	1.2377	.7467
87	50.3579	.8853	.7967	127	92.8957	1.2461	.7415
88	51.2432	.8944	.7992	128	94.1418	1.2544	.7361
89	52.1376	.9035	.8015	129	95.3962	1.2627	.7306
90	53.0411	.9126	.8036	130	96.6589	1.2710	.7249
91	53.9537	.9218	.8055	131	97.9299	1.2791	.7190
92	54.8755	.9309	.8072	132	99.2090	1.2872	.7129
93	55.8064	.9401	.8087	133	100.4962	1.2952	.7067
94	56.7465	.9493	.8100	134	101.7914	1.3032	.7003
95	57.6958	.9585	.8111	135	103.0946	1.3110	.6937
96	58.6543	.9677	.8120	136	104.4056	1.3188	.6870
97	59.6220	.9769	.8127	137	105.7244	1.3266	.6801
98	60.5989	.9861	.8132	138	107.0510	1.3342	.6729
99	61.5850	.9954	.8135	139	108.3852	1.3417	.6656
100	62.5804	1.0046	.8136	140	109.7269	1.3492	.6582
101	63.5850	1.0139	.8135	141	111.0761	1.3566	.6507
102	64.5989	1.0231	.8132	142	112.4327	1.3639	.6429
103	65.6220	1.0323	.8127	143	113.7966	1.3711	.6350
104	66.6543	1.0415	.8120	144	115.1677	1.3782	.6269
105	67.6958	1.0507	.8111	145	116.5459	1.3853	.6187
106	68.7465	1.0599	.8100	146	117.9312	1.3921	.6103
107	69.8064	1.0691	.8087	147	119.3233	1.3990	.6018
108	70.8755	1.0782	.8072	148	120.7223	1.4057	.5931
109	71.9537	1.0874	.8055	149	122.1280	1.4124	.5843
110	73.0411	1.0965	.8036	150	123.5404	1.4188	.5753
111	74.1376	1.1056	.8015	151	124.9592	1.4253	.5662
112	75.2432	1.1147	.7992	152	126.3845	1.4317	.5570
113	76.3579	1.1237	.7967	153	127.8162	1.4378	.5475
114	77.4816	1.1327	.7940	154	129.2540	1.4439	.5380
115	78.6143	1.1417	.7912	155	130.6979	1.4500	.5284
116	79.7560	1.1507	.7881	156	132.1479	1.4558	.5186
117	80.9067	1.1595	.7847	157	133.6037	1.4616	.5087
118	82.0662	1.1684	.7813	158	135.0653	1.4672	.4986
119	83.2346	1.1773	.7777	159	136.5325	1.4728	.4885
120	84.4119	1.1860	.7738	160	138.0053	1.4782	.4782

$e = 60^c$				$e = 61^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	138.0053	1.4782	.4782	0	.0000	.4250	.0000
161	139.4835	1.4836	.4679	1	.4250	.4252	.0129
162	140.9671	1.4887	.4573	2	.8502	.4254	.0258
163	142.4558	1.4938	.4467	3	1.2756	.4259	.0388
164	143.9496	1.4987	.4359	4	1.7015	.4264	.0516
165	145.4483	1.5036	.4251	5	2.1279	.4272	.0646
166	146.9519	1.5082	.4141	6	2.5551	.4280	.0774
167	148.4601	1.5129	.4032	7	2.9831	.4290	.0902
168	149.9730	1.5173	.3919	8	3.4121	.4301	.1031
169	151.4903	1.5216	.3807	9	3.8422	.4314	.1159
170	153.0119	1.5258	.3693	10	4.2736	.4328	.1287
171	154.5377	1.5298	.3579	11	4.7064	.4343	.1414
172	156.0675	1.5338	.3464	12	5.1407	.4361	.1542
173	157.6013	1.5376	.3348	13	5.5768	.4379	.1668
174	159.1389	1.5412	.3231	14	6.0147	.4398	.1794
175	160.6801	1.5448	.3114	15	6.4545	.4420	.1920
176	162.2249	1.5482	.2995	16	6.8965	.4442	.2045
177	163.7731	1.5515	.2876	17	7.3407	.4466	.2170
178	165.3246	1.5545	.2756	18	7.7873	.4491	.2295
179	166.8791	1.5576	.2636	19	8.2364	.4517	.2419
180	168.4367	1.5604	.2514	20	8.6881	.4546	.2542
181	169.9971	1.5632	.2393	21	9.1427	.4575	.2665
182	171.5603	1.5657	.2270	22	9.6002	.4605	.2786
183	173.1260	1.5681	.2147	23	10.0607	.4637	.2908
184	174.6941	1.5705	.2024	24	10.5244	.4671	.3029
185	176.2646	1.5726	.1899	25	10.9915	.4705	.3148
186	177.8372	1.5746	.1775	26	11.4620	.4741	.3267
187	179.4118	1.5765	.1650	27	11.9361	.4778	.3385
188	180.9883	1.5782	.1524	28	12.4139	.4817	.3503
189	182.5665	1.5798	.1399	29	12.8956	.4856	.3619
190	184.1463	1.5812	.1273	30	13.3812	.4898	.3735
191	185.7275	1.5826	.1147	31	13.8710	.4939	.3849
192	187.3101	1.5837	.1020	32	14.3649	.4984	.3963
193	188.8938	1.5847	.0893	33	14.8633	.5027	.4075
194	190.4785	1.5856	.0766	34	15.3660	.5074	.4188
195	192.0641	1.5863	.0638	35	15.8734	.5121	.4299
196	193.6504	1.5869	.0511	36	16.3855	.5170	.4408
197	195.2373	1.5873	.0383	37	16.9025	.5219	.4516
198	196.8246	1.5876	.0256	38	17.4244	.5270	.4624
199	198.4122	1.5878	.0128	39	17.9514	.5321	.4730
200	200.0000	1.5878	.0000	40	18.4835	.5375	.4836

$e = 61^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	18.4835	.5375	.4836	80	45.1857	.8266	.7823
41	19.0210	.5429	.4940	81	46.0123	.8352	.7862
42	19.5639	.5485	.5042	82	46.8475	.8439	.7900
43	20.1124	.5541	.5143	83	47.6914	.8527	.7935
44	20.6665	.5598	.5243	84	48.5441	.8614	.7968
45	21.2263	.5657	.5343	85	49.4055	.8701	.7999
46	21.7920	.5717	.5441	86	50.2756	.8790	.8028
47	22.3637	.5778	.5537	87	51.1546	.8878	.8055
48	22.9415	.5839	.5631	88	52.0424	.8967	.8081
49	23.5254	.5903	.5725	89	52.9391	.9056	.8104
50	24.1157	.5966	.5817	90	53.8447	.9145	.8125
51	24.7123	.6031	.5907	91	54.7592	.9235	.8144
52	25.3154	.6097	.5997	92	55.6827	.9324	.8161
53	25.9251	.6164	.6084	93	56.6151	.9414	.8177
54	26.5415	.6231	.6170	94	57.5565	.9504	.8190
55	27.1646	.6300	.6255	95	58.5069	.9594	.8201
56	27.7946	.6370	.6339	96	59.4663	.9684	.8210
57	28.4316	.6440	.6420	97	60.4347	.9774	.8217
58	29.0756	.6512	.6500	98	61.4121	.9864	.8222
59	29.7268	.6583	.6578	99	62.3985	.9955	.8226
60	30.3851	.6657	.6656	100	63.3940	1.0045	.8227
61	31.0508	.6731	.6731	101	64.3985	1.0136	.8226
62	31.7239	.6806	.6804	102	65.4121	1.0226	.8222
63	32.4045	.6881	.6875	103	66.4347	1.0316	.8217
64	33.0926	.6957	.6945	104	67.4663	1.0406	.8210
65	33.7883	.7034	.7014	105	68.5069	1.0496	.8201
66	34.4917	.7112	.7081	106	69.5565	1.0586	.8190
67	35.2029	.7190	.7146	107	70.6151	1.0676	.8177
68	35.9219	.7270	.7209	108	71.6827	1.0765	.8161
69	36.6489	.7349	.7270	109	72.7592	1.0855	.8144
70	37.3838	.7430	.7330	110	73.8447	1.0944	.8125
71	38.1268	.7511	.7388	111	74.9391	1.1033	.8104
72	38.8779	.7593	.7444	112	76.0424	1.1122	.8081
73	39.6372	.7675	.7497	113	77.1546	1.1210	.8055
74	40.4047	.7758	.7550	114	78.2756	1.1299	.8028
75	41.1805	.7841	.7600	115	79.4055	1.1386	.7999
76	41.9646	.7926	.7649	116	80.5441	1.1473	.7968
77	42.7572	.8009	.7695	117	81.6914	1.1561	.7935
78	43.5581	.8095	.7740	118	82.8475	1.1648	.7900
79	44.3676	.8181	.7783	119	84.0123	1.1734	.7862
80	45.1857	.8266	.7823	120	85.1857	1.1819	.7823

$e = 61^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	85.1857	1.1819	.7823	160	138.4835	1.4679	.4836
121	86.3676	1.1905	.7783	161	139.9514	1.4730	.4730
122	87.5581	1.1991	.7740	162	141.4244	1.4781	.4624
123	88.7572	1.2074	.7695	163	142.9025	1.4830	.4516
124	89.9646	1.2159	.7649	164	144.3855	1.4879	.4408
125	91.1805	1.2242	.7600	165	145.8734	1.4926	.4299
126	92.4047	1.2325	.7550	166	147.3660	1.4973	.4188
127	93.6372	1.2407	.7497	167	148.8633	1.5016	.4075
128	94.8779	1.2489	.7444	168	150.3649	1.5061	.3963
129	96.1268	1.2570	.7388	169	151.8710	1.5102	.3849
130	97.3838	1.2651	.7330	170	153.3812	1.5144	.3735
131	98.6489	1.2730	.7270	171	154.8956	1.5183	.3619
132	99.9219	1.2810	.7209	172	156.4139	1.5222	.3503
133	101.2029	1.2888	.7146	173	157.9361	1.5259	.3385
134	102.4917	1.2966	.7081	174	159.4620	1.5295	.3267
135	103.7883	1.3043	.7014	175	160.9915	1.5329	.3148
136	105.0926	1.3119	.6945	176	162.5244	1.5363	.3029
137	106.4045	1.3194	.6875	177	164.0607	1.5395	.2908
138	107.7239	1.3269	.6804	178	165.6002	1.5425	.2786
139	109.0508	1.3343	.6731	179	167.1427	1.5454	.2665
140	110.3851	1.3417	.6656	180	168.6881	1.5483	.2542
141	111.7268	1.3488	.6578	181	170.2364	1.5509	.2419
142	113.0756	1.3560	.6500	182	171.7873	1.5534	.2295
143	114.4316	1.3630	.6420	183	173.3407	1.5558	.2170
144	115.7946	1.3700	.6339	184	174.8965	1.5580	.2045
145	117.1646	1.3769	.6255	185	176.4545	1.5602	.1920
146	118.5415	1.3836	.6170	186	178.0147	1.5621	.1794
147	119.9251	1.3903	.6084	187	179.5768	1.5639	.1668
148	121.3154	1.3969	.5997	188	181.1407	1.5657	.1542
149	122.7123	1.4034	.5907	189	182.7064	1.5672	.1414
150	124.1157	1.4097	.5817	190	184.2736	1.5686	.1287
151	125.5254	1.4161	.5725	191	185.8422	1.5699	.1159
152	126.9415	1.4222	.5631	192	187.4121	1.5710	.1031
153	128.3637	1.4283	.5537	193	188.9831	1.5720	.0902
154	129.7920	1.4343	.5441	194	190.5551	1.5728	.0774
155	131.2263	1.4402	.5343	195	192.1279	1.5736	.0646
156	132.6665	1.4459	.5243	196	193.7015	1.5741	.0516
157	134.1124	1.4515	.5143	197	195.2756	1.5746	.0388
158	135.5639	1.4571	.5042	198	196.8502	1.5748	.0258
159	137.0210	1.4625	.4940	199	198.4250	1.5750	.0129
160	138.4835	1.4679	.4836	200	200.0000	1.5750	.0000



$e = 62^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.4379	.0000	40	18.9671	.5479	.4887
1	.4379	.4381	.0131	41	19.5150	.5531	.4992
2	.8760	.4384	.0261	42	20.0681	.5586	.5096
3	1.3144	.4387	.0391	43	20.6267	.5641	.5199
4	1.7531	.4394	.0523	44	21.1908	.5698	.5300
5	2.1925	.4400	.0652	45	21.7606	.5755	.5400
6	2.6325	.4408	.0782	46	22.3361	.5813	.5498
7	3.0733	.4419	.0913	47	22.9174	.5872	.5595
8	3.5152	.4429	.1042	48	23.5046	.5933	.5692
9	3.9581	.4442	.1171	49	24.0979	.5995	.5786
10	4.4023	.4455	.1300	50	24.6974	.6056	.5879
11	4.8478	.4471	.1430	51	25.3030	.6121	.5971
12	5.2949	.4487	.1558	52	25.9151	.6184	.6061
13	5.7436	.4505	.1686	53	26.5335	.6250	.6150
14	6.1941	.4524	.1814	54	27.1585	.6316	.6237
15	6.6465	.4545	.1941	55	27.7901	.6384	.6323
16	7.1010	.4567	.2068	56	28.4285	.6451	.6406
17	7.5577	.4591	.2194	57	29.0736	.6520	.6489
18	8.0168	.4615	.2319	58	29.7256	.6590	.6570
19	8.4783	.4640	.2444	59	30.3846	.6661	.6649
20	8.9423	.4669	.2570	60	31.0507	.6732	.6726
21	9.4092	.4696	.2693	61	31.7239	.6804	.6802
22	9.8788	.4727	.2817	62	32.4043	.6877	.6877
23	10.3515	.4758	.2939	63	33.0920	.6951	.6950
24	10.8273	.4790	.3061	64	33.7871	.7026	.7021
25	11.3063	.4824	.3182	65	34.4897	.7101	.7089
26	11.7887	.4859	.3302	66	35.1998	.7177	.7156
27	12.2746	.4896	.3422	67	35.9175	.7253	.7222
28	12.7642	.4933	.3540	68	36.6428	.7331	.7286
29	13.2575	.4972	.3658	69	37.3759	.7409	.7348
30	13.7547	.5012	.3775	70	38.1168	.7488	.7408
31	14.2559	.5053	.3891	71	38.8656	.7567	.7466
32	14.7612	.5096	.4006	72	39.6223	.7646	.7523
33	15.2708	.5140	.4120	73	40.3869	.7728	.7578
34	15.7848	.5185	.4232	74	41.1597	.7808	.7631
35	16.3033	.5230	.4344	75	41.9405	.7890	.7682
36	16.8263	.5278	.4455	76	42.7295	.7972	.7731
37	17.3541	.5327	.4565	77	43.5267	.8054	.7778
38	17.8868	.5376	.4673	78	44.3321	.8138	.7824
39	18.4244	.5427	.4781	79	45.1459	.8221	.7866
40	18.9671	.5479	.4887	80	45.9680	.8305	.7908

$e = 62^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	45.9680	.8305	.7908	120	85.9680	1.1779	.7908
81	46.7985	.8390	.7947	121	87.1459	1.1862	.7866
82	47.6375	.8474	.7984	122	88.3321	1.1946	.7824
83	48.4849	.8560	.8020	123	89.5267	1.2028	.7778
84	49.3409	.8645	.8053	124	90.7295	1.2110	.7731
85	50.2054	.8730	.8084	125	91.9405	1.2192	.7682
86	51.0784	.8817	.8115	126	93.1597	1.2272	.7631
87	51.9601	.8904	.8142	127	94.3869	1.2354	.7578
88	52.8505	.8990	.8167	128	95.6223	1.2433	.7523
89	53.7495	.9077	.8191	129	96.8656	1.2512	.7466
90	54.6572	.9164	.8212	130	98.1168	1.2591	.7408
91	55.5736	.9252	.8232	131	99.3759	1.2669	.7348
92	56.4988	.9340	.8249	132	100.6428	1.2747	.7286
93	57.4328	.9427	.8264	133	101.9175	1.2823	.7222
94	58.3755	.9515	.8277	134	103.1998	1.2899	.7156
95	59.3270	.9603	.8289	135	104.4897	1.2974	.7089
96	60.2873	.9691	.8298	136	105.7871	1.3049	.7021
97	61.2564	.9779	.8305	137	107.0920	1.3123	.6950
98	62.2343	.9868	.8311	138	108.4043	1.3196	.6877
99	63.2211	.9956	.8313	139	109.7239	1.3268	.6802
100	64.2167	1.0044	.8314	140	111.0507	1.3339	.6726
101	65.2211	1.0132	.8313	141	112.3846	1.3410	.6649
102	66.2343	1.0221	.8311	142	113.7256	1.3480	.6570
103	67.2564	1.0309	.8305	143	115.0736	1.3549	.6489
104	68.2873	1.0397	.8298	144	116.4285	1.3616	.6406
105	69.3270	1.0485	.8289	145	117.7901	1.3684	.6323
106	70.3755	1.0573	.8277	146	119.1585	1.3750	.6237
107	71.4328	1.0660	.8264	147	120.5335	1.3816	.6150
108	72.4988	1.0748	.8249	148	121.9151	1.3879	.6061
109	73.5736	1.0836	.8232	149	123.3030	1.3944	.5971
110	74.6572	1.0923	.8212	150	124.6974	1.4005	.5879
111	75.7495	1.1010	.8191	151	126.0979	1.4067	.5786
112	76.8505	1.1096	.8167	152	127.5046	1.4128	.5692
113	77.9601	1.1183	.8142	153	128.9174	1.4187	.5595
114	79.0784	1.1270	.8115	154	130.3361	1.4245	.5498
115	80.2054	1.1355	.8084	155	131.7606	1.4302	.5400
116	81.3409	1.1440	.8053	156	133.1908	1.4359	.5300
117	82.4849	1.1526	.8020	157	134.6267	1.4414	.5199
118	83.6375	1.1610	.7984	158	136.0681	1.4469	.5096
119	84.7985	1.1695	.7947	159	137.5150	1.4521	.4992
120	85.9680	1.1779	.7908	160	138.9671	1.4573	.4887

$e = 62^c$				$e = 63^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	138.9671	1.4573	.4887	0	.0000	.4510	.0000
161	140.4244	1.4624	.4781	1	.4510	.4511	.0132
162	141.8868	1.4673	.4673	2	.9021	.4514	.0264
163	143.3541	1.4722	.4565	3	1.3535	.4519	.0396
164	144.8263	1.4770	.4455	4	1.8054	.4523	.0527
165	146.3033	1.4815	.4344	5	2.2577	.4530	.0659
166	147.7848	1.4860	.4232	6	2.7107	.4539	.0791
167	149.2708	1.4904	.4120	7	3.1646	.4548	.0922
168	150.7612	1.4947	.4006	8	3.6194	.4558	.1053
169	152.2559	1.4988	.3891	9	4.0752	.4571	.1184
170	153.7547	1.5028	.3775	10	4.5323	.4585	.1314
171	155.2575	1.5067	.3658	11	4.9908	.4599	.1444
172	156.7642	1.5104	.3540	12	5.4507	.4615	.1574
173	158.2746	1.5141	.3422	13	5.9122	.4633	.1704
174	159.7887	1.5176	.3302	14	6.3755	.4651	.1832
175	161.3063	1.5210	.3182	15	6.8406	.4672	.1962
176	162.8273	1.5242	.3061	16	7.3078	.4693	.2089
177	164.3515	1.5273	.2939	17	7.7771	.4716	.2217
178	165.8788	1.5304	.2817	18	8.2487	.4740	.2344
179	167.4092	1.5331	.2693	19	8.7227	.4766	.2471
180	168.9423	1.5360	.2570	20	9.1993	.4792	.2596
181	170.4783	1.5385	.2444	21	9.6785	.4820	.2721
182	172.0168	1.5409	.2319	22	10.1605	.4849	.2845
183	173.5577	1.5433	.2194	23	10.6454	.4880	.2969
184	175.1010	1.5455	.2068	24	11.1334	.4911	.3092
185	176.6465	1.5476	.1941	25	11.6245	.4944	.3215
186	178.1941	1.5495	.1814	26	12.1189	.4979	.3337
187	179.7436	1.5513	.1686	27	12.6168	.5014	.3457
188	181.2949	1.5529	.1558	28	13.1182	.5051	.3577
189	182.8478	1.5545	.1430	29	13.6233	.5089	.3696
190	184.4023	1.5558	.1300	30	14.1322	.5128	.3814
191	185.9581	1.5571	.1171	31	14.6450	.5168	.3931
192	187.5152	1.5581	.1042	32	15.1618	.5210	.4047
193	189.0733	1.5592	.0913	33	15.6828	.5252	.4162
194	190.6325	1.5600	.0782	34	16.2080	.5297	.4277
195	192.1925	1.5606	.0652	35	16.7377	.5341	.4389
196	193.7531	1.5613	.0523	36	17.2718	.5388	.4502
197	195.3144	1.5616	.0391	37	17.8106	.5435	.4612
198	196.8760	1.5619	.0261	38	18.3541	.5484	.4722
199	198.4379	1.5621	.0131	39	18.9025	.5533	.4830
200	200.0000	1.5621	.0000	40	19.4558	.5584	.4938

$e = 63^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	19.4558	.5584	.4938	80	46.7588	.8344	.7990
41	20.0142	.5635	.5044	81	47.5932	.8427	.8030
42	20.5777	.5689	.5149	82	48.4359	.8510	.8068
43	21.1466	.5742	.5253	83	49.2869	.8593	.8103
44	21.7208	.5798	.5355	84	50.1462	.8676	.8137
45	22.3006	.5853	.5456	85	51.0138	.8761	.8169
46	22.8859	.5910	.5556	86	51.8899	.8844	.8198
47	23.4769	.5969	.5654	87	52.7743	.8929	.8227
48	24.0738	.6027	.5751	88	53.6672	.9014	.8252
49	24.6765	.6088	.5847	89	54.5686	.9098	.8276
50	25.2853	.6148	.5940	90	55.4784	.9184	.8298
51	25.9001	.6211	.6033	91	56.3968	.9269	.8317
52	26.5212	.6273	.6124	92	57.3237	.9355	.8335
53	27.1485	.6337	.6214	93	58.2592	.9440	.8350
54	27.7822	.6402	.6302	94	59.2032	.9527	.8364
55	28.4224	.6467	.6388	95	60.1559	.9612	.8375
56	29.0691	.6534	.6473	96	61.1171	.9698	.8384
57	29.7225	.6601	.6556	97	62.0869	.9785	.8392
58	30.3826	.6669	.6638	98	63.0654	.9870	.8396
59	31.0495	.6738	.6718	99	64.0524	.9957	.8400
60	31.7233	.6808	.6797	100	65.0481	1.0043	.8401
61	32.4041	.6879	.6873	101	66.0524	1.0130	.8400
62	33.0920	.6950	.6948	102	67.0654	1.0215	.8396
63	33.7870	.7022	.7021	103	68.0869	1.0302	.8392
64	34.4892	.7094	.7093	104	69.1171	1.0388	.8384
65	35.1986	.7168	.7163	105	70.1559	1.0473	.8375
66	35.9154	.7243	.7231	106	71.2032	1.0560	.8364
67	36.6397	.7317	.7297	107	72.2592	1.0645	.8350
68	37.3714	.7393	.7362	108	73.3237	1.0731	.8335
69	38.1107	.7469	.7425	109	74.3968	1.0816	.8317
70	38.8576	.7546	.7486	110	75.4784	1.0902	.8298
71	39.6122	.7624	.7545	111	76.5686	1.0986	.8276
72	40.3746	.7701	.7601	112	77.6672	1.1071	.8252
73	41.1447	.7781	.7657	113	78.7743	1.1156	.8227
74	41.9228	.7859	.7709	114	79.8899	1.1239	.8198
75	42.7087	.7939	.7761	115	81.0138	1.1324	.8169
76	43.5026	.8019	.7811	116	82.1462	1.1407	.8137
77	44.3045	.8100	.7858	117	83.2869	1.1490	.8103
78	45.1145	.8180	.7904	118	84.4359	1.1573	.8068
79	45.9325	.8263	.7948	119	85.5932	1.1656	.8030
80	46.7588	.8344	.7990	120	86.7588	1.1737	.7990

$e = 63^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	86.7588	1.1737	.7990	160	139.4558	1.4467	.4938
121	87.9325	1.1820	.7948	161	140.9025	1.4516	.4830
122	89.1145	1.1900	.7904	162	142.3541	1.4565	.4722
123	90.3045	1.1981	.7858	163	143.8106	1.4612	.4612
124	91.5026	1.2061	.7811	164	145.2718	1.4659	.4502
125	92.7087	1.2141	.7761	165	146.7377	1.4703	.4389
126	93.9228	1.2219	.7709	166	148.2080	1.4748	.4277
127	95.1447	1.2299	.7657	167	149.6828	1.4790	.4162
128	96.3746	1.2376	.7601	168	151.1618	1.4832	.4047
129	97.6122	1.2454	.7545	169	152.6450	1.4872	.3931
130	98.8576	1.2531	.7486	170	154.1322	1.4911	.3814
131	100.1107	1.2607	.7425	171	155.6233	1.4949	.3696
132	101.3714	1.2683	.7362	172	157.1182	1.4986	.3577
133	102.6397	1.2757	.7297	173	158.6168	1.5021	.3457
134	103.9154	1.2832	.7231	174	160.1189	1.5056	.3337
135	105.1986	1.2906	.7163	175	161.6245	1.5089	.3215
136	106.4892	1.2978	.7093	176	163.1334	1.5120	.3092
137	107.7870	1.3050	.7021	177	164.6454	1.5151	.2969
138	109.0920	1.3121	.6948	178	166.1605	1.5180	.2845
139	110.4041	1.3192	.6873	179	167.6785	1.5208	.2721
140	111.7233	1.3262	.6797	180	169.1993	1.5234	.2596
141	113.0495	1.3331	.6718	181	170.7227	1.5260	.2471
142	114.3826	1.3399	.6638	182	172.2487	1.5284	.2344
143	115.7225	1.3466	.6556	183	173.7771	1.5307	.2217
144	117.0691	1.3533	.6473	184	175.3078	1.5328	.2089
145	118.4224	1.3598	.6388	185	176.8406	1.5349	.1962
146	119.7822	1.3663	.6302	186	178.3755	1.5367	.1832
147	121.1485	1.3727	.6214	187	179.9122	1.5385	.1704
148	122.5212	1.3789	.6124	188	181.4507	1.5401	.1574
149	123.9001	1.3852	.6033	189	182.9908	1.5415	.1444
150	125.2853	1.3912	.5940	190	184.5323	1.5429	.1314
151	126.6765	1.3973	.5847	191	186.0752	1.5442	.1184
152	128.0738	1.4031	.5751	192	187.6194	1.5452	.1053
153	129.4769	1.4090	.5654	193	189.1646	1.5461	.0922
154	130.8859	1.4147	.5556	194	190.7107	1.5470	.0791
155	132.3006	1.4202	.5456	195	192.2577	1.5477	.0659
156	133.7208	1.4258	.5355	196	193.8054	1.5481	.0527
157	135.1466	1.4311	.5253	197	195.3535	1.5486	.0396
158	136.5777	1.4365	.5149	198	196.9021	1.5489	.0264
159	138.0142	1.4416	.5044	199	198.4510	1.5490	.0132
160	139.4558	1.4467	.4938	200	200.0000	1.5490	.0000

$e = 64^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.4642	.0000	40	19.9496	.5690	.4987
1	.4642	.4643	.0133	41	20.5186	.5740	.5094
2	.9285	.4646	.0267	42	21.0926	.5793	.5201
3	1.3931	.4650	.0400	43	21.6719	.5844	.5305
4	1.8581	.4655	.0533	44	22.2563	.5899	.5409
5	2.3236	.4662	.0666	45	22.8462	.5953	.5510
6	2.7898	.4670	.0798	46	23.4415	.6008	.5611
7	3.2568	.4679	.0931	47	24.0423	.6066	.5711
8	3.7247	.4689	.1063	48	24.6489	.6123	.5808
9	4.1936	.4701	.1196	49	25.2612	.6181	.5904
10	4.6637	.4715	.1328	50	25.8793	.6241	.6000
11	5.1352	.4729	.1459	51	26.5034	.6302	.6094
12	5.6081	.4745	.1590	52	27.1336	.6363	.6185
13	6.0826	.4761	.1720	53	27.7699	.6425	.6275
14	6.5587	.4781	.1851	54	28.4124	.6488	.6364
15	7.0368	.4799	.1980	55	29.0612	.6552	.6452
16	7.5167	.4821	.2111	56	29.7164	.6617	.6538
17	7.9988	.4843	.2239	57	30.3781	.6683	.6622
18	8.4831	.4867	.2367	58	31.0464	.6749	.6704
19	8.9698	.4891	.2495	59	31.7213	.6817	.6786
20	9.4589	.4917	.2622	60	32.4030	.6884	.6864
21	9.9506	.4944	.2748	61	33.0914	.6954	.6942
22	10.4450	.4973	.2875	62	33.7868	.7023	.7018
23	10.9423	.5003	.3000	63	34.4891	.7094	.7092
24	11.4426	.5034	.3124	64	35.1985	.7164	.7164
25	11.9460	.5066	.3247	65	35.9149	.7236	.7235
26	12.4526	.5099	.3370	66	36.6385	.7309	.7304
27	12.9625	.5134	.3492	67	37.3694	.7382	.7371
28	13.4759	.5170	.3613	68	38.1076	.7456	.7436
29	13.9929	.5207	.3733	69	38.8532	.7530	.7498
30	14.5136	.5245	.3852	70	39.6062	.7605	.7560
31	15.0381	.5284	.3970	71	40.3667	.7680	.7619
32	15.5665	.5325	.4088	72	41.1347	.7757	.7678
33	16.0990	.5367	.4204	73	41.9104	.7833	.7733
34	16.6357	.5409	.4319	74	42.6937	.7911	.7788
35	17.1766	.5454	.4434	75	43.4848	.7989	.7839
36	17.7220	.5498	.4546	76	44.2837	.8066	.7889
37	18.2718	.5545	.4659	77	45.0903	.8146	.7938
38	18.8263	.5592	.4770	78	45.9049	.8224	.7983
39	19.3855	.5641	.4879	79	46.7273	.8305	.8028
40	19.9496	.5690	.4987	80	47.5578	.8384	.8069

$e = 64^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	47.5578	.8384	.8069	120	87.5578	1.1695	.8069
81	48.3962	.8465	.8110	121	88.7273	1.1776	.8028
82	49.2427	.8545	.8148	122	89.9049	1.1854	.7983
83	50.0972	.8627	.8184	123	91.0903	1.1934	.7938
84	50.9599	.8708	.8218	124	92.2837	1.2011	.7889
85	51.8307	.8790	.8251	125	93.4848	1.2089	.7839
86	52.7097	.8873	.8281	126	94.6937	1.2167	.7788
87	53.5970	.8954	.8308	127	95.9104	1.2243	.7733
88	54.4924	.9038	.8335	128	97.1347	1.2320	.7678
89	55.3962	.9120	.8358	129	98.3667	1.2395	.7619
90	56.3082	.9203	.8380	130	99.6062	1.2470	.7560
91	57.2285	.9287	.8401	131	100.8532	1.2544	.7498
92	58.1572	.9370	.8418	132	102.1076	1.2618	.7436
93	59.0942	.9454	.8434	133	103.3694	1.2691	.7371
94	60.0396	.9538	.8447	134	104.6385	1.2764	.7304
95	60.9934	.9621	.8458	135	105.9149	1.2836	.7235
96	61.9555	.9706	.8468	136	107.1985	1.2906	.7164
97	62.9261	.9789	.8475	137	108.4891	1.2977	.7092
98	63.9050	.9874	.8481	138	109.7868	1.3046	.7018
99	64.8924	.9958	.8484	139	111.0914	1.3116	.6942
100	65.8882	1.0042	.8485	140	112.4030	1.3183	.6864
101	66.8924	1.0126	.8484	141	113.7213	1.3251	.6786
102	67.9050	1.0211	.8481	142	115.0464	1.3317	.6704
103	68.9261	1.0294	.8475	143	116.3781	1.3383	.6622
104	69.9555	1.0379	.8468	144	117.7164	1.3448	.6538
105	70.9934	1.0462	.8458	145	119.0612	1.3512	.6452
106	72.0396	1.0546	.8447	146	120.4124	1.3575	.6364
107	73.0942	1.0630	.8434	147	121.7699	1.3637	.6275
108	74.1572	1.0713	.8418	148	123.1336	1.3698	.6185
109	75.2285	1.0797	.8401	149	124.5034	1.3759	.6094
110	76.3082	1.0880	.8380	150	125.8793	1.3819	.6000
111	77.3962	1.0962	.8358	151	127.2612	1.3877	.5904
112	78.4924	1.1046	.8335	152	128.6489	1.3934	.5808
113	79.5970	1.1127	.8308	153	130.0423	1.3992	.5711
114	80.7097	1.1210	.8281	154	131.4415	1.4047	.5611
115	81.8307	1.1292	.8251	155	132.8462	1.4101	.5510
116	82.9599	1.1373	.8218	156	134.2563	1.4156	.5409
117	84.0972	1.1455	.8184	157	135.6719	1.4207	.5305
118	85.2427	1.1535	.8148	158	137.0926	1.4260	.5201
119	86.3962	1.1616	.8110	159	138.5186	1.4310	.5094
120	87.5578	1.1695	.8069	160	139.9496	1.4359	.4987

$e = 64^c$				$e = 65^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	139.9496	1.4359	.4987	0	.0000	.4775	.0000
161	141.3855	1.4408	.4879	1	.4775	.4777	.0135
162	142.8263	1.4455	.4770	2	.9552	.4779	.0269
163	144.2718	1.4502	.4659	3	1.4331	.4783	.0403
164	145.7220	1.4546	.4546	4	1.9114	.4788	.0538
165	147.1766	1.4591	.4434	5	2.3902	.4794	.0672
166	148.6357	1.4633	.4319	6	2.8696	.4803	.0807
167	150.0990	1.4675	.4204	7	3.3499	.4811	.0940
168	151.5665	1.4716	.4088	8	3.8310	.4822	.1074
169	153.0381	1.4755	.3970	9	4.3132	.4833	.1207
170	154.5136	1.4793	.3852	10	4.7965	.4846	.1340
171	155.9929	1.4830	.3733	11	5.2811	.4860	.1473
172	157.4759	1.4866	.3613	12	5.7671	.4875	.1605
173	158.9625	1.4901	.3492	13	6.2546	.4892	.1738
174	160.4526	1.4934	.3370	14	6.7438	.4910	.1869
175	161.9460	1.4966	.3247	15	7.2348	.4930	.2000
176	163.4426	1.4997	.3124	16	7.7278	.4949	.2130
177	164.9423	1.5027	.3000	17	8.2227	.4971	.2261
178	166.4450	1.5056	.2875	18	8.7198	.4995	.2391
179	167.9506	1.5083	.2748	19	9.2193	.5018	.2519
180	169.4589	1.5109	.2622	20	9.7211	.5043	.2647
181	170.9698	1.5133	.2495	21	10.2254	.5071	.2775
182	172.4831	1.5157	.2367	22	10.7325	.5098	.2902
183	173.9988	1.5179	.2239	23	11.2423	.5127	.3028
184	175.5167	1.5201	.2111	24	11.7550	.5157	.3153
185	177.0368	1.5219	.1980	25	12.2707	.5189	.3278
186	178.5587	1.5239	.1851	26	12.7896	.5221	.3402
187	180.0826	1.5255	.1720	27	13.3117	.5255	.3525
188	181.6081	1.5271	.1590	28	13.8372	.5290	.3647
189	183.1352	1.5285	.1459	29	14.3662	.5326	.3769
190	184.6637	1.5299	.1328	30	14.8988	.5363	.3889
191	186.1936	1.5311	.1196	31	15.4351	.5402	.4009
192	187.7247	1.5321	.1063	32	15.9753	.5441	.4127
193	189.2568	1.5330	.0931	33	16.5194	.5482	.4245
194	190.7898	1.5338	.0798	34	17.0676	.5524	.4361
195	192.3236	1.5345	.0666	35	17.6200	.5566	.4476
196	193.8581	1.5350	.0533	36	18.1766	.5611	.4591
197	195.3931	1.5354	.0400	37	18.7377	.5656	.4703
198	196.9285	1.5357	.0267	38	19.3033	.5701	.4815
199	198.4642	1.5358	.0133	39	19.8734	.5749	.4926
200	200.0000	1.5358	.0000	40	20.4483	.5797	.5036



$e = 65^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	20.4483	.5797	.5036	80	48.3647	.8425	.8148
41	21.0280	.5847	.5144	81	49.2072	.8503	.8188
42	21.6127	.5897	.5251	82	50.0575	.8581	.8227
43	22.2024	.5948	.5356	83	50.9156	.8661	.8264
44	22.7972	.6000	.5461	84	51.7817	.8741	.8298
45	23.3972	.6054	.5564	85	52.6558	.8820	.8330
46	24.0026	.6108	.5665	86	53.5378	.8900	.8361
47	24.6134	.6163	.5766	87	54.4278	.8981	.8389
48	25.2297	.6219	.5865	88	55.3259	.9061	.8415
49	25.8516	.6277	.5962	89	56.2320	.9142	.8440
50	26.4793	.6335	.6058	90	57.1462	.9224	.8462
51	27.1128	.6393	.6152	91	58.0686	.9304	.8481
52	27.7521	.6453	.6245	92	58.9990	.9386	.8500
53	28.3974	.6514	.6337	93	59.9376	.9467	.8515
54	29.0488	.6576	.6427	94	60.8843	.9549	.8529
55	29.7064	.6638	.6514	95	61.8392	.9631	.8541
56	30.3702	.6701	.6601	96	62.8023	.9713	.8551
57	31.0403	.6765	.6686	97	63.7736	.9795	.8558
58	31.7168	.6831	.6770	98	64.7531	.9877	.8563
59	32.3999	.6895	.6851	99	65.7408	.9959	.8566
60	33.0894	.6962	.6931	100	66.7367	1.0041	.8567
61	33.7856	.7030	.7010	101	67.7408	1.0123	.8566
62	34.4886	.7097	.7085	102	68.7531	1.0205	.8563
63	35.1983	.7166	.7160	103	69.7736	1.0287	.8558
64	35.9149	.7235	.7233	104	70.8023	1.0369	.8551
65	36.6384	.7305	.7304	105	71.8392	1.0451	.8541
66	37.3689	.7376	.7374	106	72.8843	1.0533	.8529
67	38.1065	.7447	.7441	107	73.9376	1.0614	.8515
68	38.8512	.7518	.7507	108	74.9990	1.0696	.8500
69	39.6030	.7592	.7572	109	76.0686	1.0776	.8481
70	40.3622	.7664	.7633	110	77.1462	1.0858	.8462
71	41.1286	.7739	.7694	111	78.2320	1.0939	.8440
72	41.9025	.7812	.7751	112	79.3259	1.1019	.8415
73	42.6837	.7888	.7808	113	80.4278	1.1100	.8389
74	43.4725	.7962	.7862	114	81.5378	1.1180	.8361
75	44.2687	.8039	.7915	115	82.6558	1.1259	.8330
76	45.0726	.8115	.7965	116	83.7817	1.1339	.8298
77	45.8841	.8191	.8014	117	84.9156	1.1419	.8264
78	46.7032	.8269	.8061	118	86.0575	1.1497	.8227
79	47.5301	.8346	.8105	119	87.2072	1.1575	.8188
80	48.3647	.8425	.8148	120	88.3647	1.1654	.8148

$e = 65^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	88.3647	1.1654	.8148	160	140.4483	1.4251	.5036
121	89.5301	1.1731	.8105	161	141.8734	1.4299	.4926
122	90.7032	1.1809	.8061	162	143.3033	1.4344	.4815
123	91.8841	1.1885	.8014	163	144.7377	1.4389	.4703
124	93.0726	1.1961	.7965	164	146.1766	1.4434	.4591
125	94.2687	1.2038	.7915	165	147.6200	1.4476	.4476
126	95.4725	1.2112	.7862	166	149.0676	1.4518	.4361
127	96.6837	1.2188	.7808	167	150.5194	1.4559	.4245
128	97.9025	1.2261	.7751	168	151.9753	1.4598	.4127
129	99.1286	1.2336	.7694	169	153.4351	1.4637	.4009
130	100.3622	1.2408	.7633	170	154.8988	1.4674	.3889
131	101.6030	1.2482	.7572	171	156.3662	1.4710	.3769
132	102.8512	1.2553	.7507	172	157.8372	1.4745	.3647
133	104.1065	1.2624	.7441	173	159.3117	1.4779	.3525
134	105.3689	1.2695	.7374	174	160.7896	1.4811	.3402
135	106.6384	1.2765	.7304	175	162.2707	1.4843	.3278
136	107.9149	1.2834	.7233	176	163.7550	1.4873	.3153
137	109.1983	1.2903	.7160	177	165.2423	1.4902	.3028
138	110.4886	1.2970	.7085	178	166.7325	1.4929	.2902
139	111.7856	1.3038	.7010	179	168.2254	1.4957	.2775
140	113.0894	1.3105	.6931	180	169.7211	1.4982	.2647
141	114.3999	1.3169	.6851	181	171.2193	1.5005	.2519
142	115.7168	1.3235	.6770	182	172.7198	1.5029	.2391
143	117.0403	1.3299	.6686	183	174.2227	1.5051	.2261
144	118.3702	1.3362	.6601	184	175.7278	1.5070	.2130
145	119.7064	1.3424	.6514	185	177.2348	1.5090	.2000
146	121.0488	1.3486	.6427	186	178.7438	1.5108	.1869
147	122.3974	1.3547	.6337	187	180.2546	1.5125	.1738
148	123.7521	1.3607	.6245	188	181.7671	1.5140	.1605
149	125.1128	1.3665	.6152	189	183.2811	1.5154	.1473
150	126.4793	1.3723	.6058	190	184.7965	1.5167	.1340
151	127.8516	1.3781	.5962	191	186.3132	1.5178	.1207
152	129.2297	1.3837	.5865	192	187.8310	1.5189	.1074
153	130.6134	1.3892	.5766	193	189.3499	1.5197	.0940
154	132.0026	1.3946	.5665	194	190.8696	1.5206	.0807
155	133.3972	1.4000	.5564	195	192.3902	1.5212	.0672
156	134.7972	1.4052	.5461	196	193.9114	1.5217	.0538
157	136.2024	1.4103	.5356	197	195.4331	1.5221	.0403
158	137.6127	1.4153	.5251	198	196.9552	1.5223	.0269
159	139.0280	1.4203	.5144	199	198.4775	1.5225	.0135
160	140.4483	1.4251	.5036	200	200.0000	1.5225	.0000

$e = 66^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.4910	.0000	40	20.9519	.5905	.5082
1	.4910	.4911	.0136	41	21.5424	.5954	.5192
2	.9821	.4913	.0271	42	22.1378	.6002	.5300
3	1.4734	.4918	.0408	43	22.7380	.6053	.5407
4	1.9652	.4922	.0543	44	23.3433	.6103	.5511
5	2.4574	.4929	.0679	45	23.9536	.6155	.5616
6	2.9503	.4936	.0813	46	24.5691	.6209	.5719
7	3.4439	.4945	.0949	47	25.1900	.6262	.5819
8	3.9384	.4955	.1084	48	25.8162	.6316	.5919
9	4.4339	.4966	.1218	49	26.4478	.6373	.6018
10	4.9305	.4979	.1353	50	27.0851	.6429	.6114
11	5.4284	.4992	.1486	51	27.7280	.6486	.6209
12	5.9276	.5008	.1620	52	28.3766	.6545	.6304
13	6.4284	.5023	.1753	53	29.0311	.6604	.6395
14	6.9307	.5041	.1887	54	29.6915	.6663	.6486
15	7.4348	.5060	.2019	55	30.3578	.6725	.6576
16	7.9408	.5080	.2151	56	31.0303	.6786	.6663
17	8.4488	.5101	.2281	57	31.7089	.6849	.6749
18	8.9589	.5123	.2412	58	32.3938	.6912	.6832
19	9.4712	.5146	.2542	59	33.0850	.6975	.6914
20	9.9858	.5171	.2672	60	33.7825	.7041	.6996
21	10.5029	.5198	.2801	61	34.4866	.7105	.7074
22	11.0227	.5224	.2929	62	35.1971	.7172	.7152
23	11.5451	.5252	.3056	63	35.9143	.7239	.7228
24	12.0703	.5282	.3184	64	36.6382	.7306	.7301
25	12.5985	.5313	.3309	65	37.3688	.7375	.7373
26	13.1298	.5344	.3434	66	38.1063	.7443	.7443
27	13.6642	.5377	.3559	67	38.8506	.7513	.7511
28	14.2019	.5412	.3682	68	39.6019	.7583	.7577
29	14.7431	.5446	.3804	69	40.3602	.7653	.7642
30	15.2877	.5483	.3926	70	41.1255	.7725	.7705
31	15.8360	.5520	.4046	71	41.8980	.7796	.7765
32	16.3880	.5559	.4166	72	42.6776	.7869	.7825
33	16.9439	.5598	.4284	73	43.4645	.7942	.7881
34	17.5037	.5639	.4402	74	44.2587	.8015	.7936
35	18.0676	.5681	.4518	75	45.0602	.8089	.7989
36	18.6357	.5723	.4633	76	45.8691	.8164	.8040
37	19.2080	.5768	.4748	77	46.6855	.8238	.8088
38	19.7848	.5812	.4860	78	47.5093	.8313	.8136
39	20.3660	.5859	.4973	79	48.3406	.8389	.8181
40	20.9519	.5905	.5082	80	49.1795	.8465	.8224

$e = 66^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	49.1795	.8465	.8224	120	89.1795	1.1611	.8224
81	50.0260	.8542	.8265	121	90.3406	1.1687	.8181
82	50.8802	.8618	.8303	122	91.5093	1.1762	.8136
83	51.7420	.8695	.8340	123	92.6855	1.1836	.8088
84	52.6115	.8773	.8376	124	93.8691	1.1911	.8040
85	53.4888	.8851	.8408	125	95.0602	1.1985	.7989
86	54.3739	.8928	.8439	126	96.2587	1.2058	.7936
87	55.2667	.9007	.8468	127	97.4645	1.2131	.7881
88	56.1674	.9086	.8494	128	98.6776	1.2204	.7825
89	57.0760	.9164	.8518	129	99.8980	1.2275	.7765
90	57.9924	.9243	.8541	130	101.1255	1.2347	.7705
91	58.9167	.9323	.8561	131	102.3602	1.2417	.7642
92	59.8490	.9401	.8578	132	103.6019	1.2487	.7577
93	60.7891	.9481	.8595	133	104.8506	1.2557	.7511
94	61.7372	.9561	.8609	134	106.1063	1.2625	.7443
95	62.6933	.9641	.8621	135	107.3688	1.2694	.7373
96	63.6574	.9720	.8630	136	108.6382	1.2761	.7301
97	64.6294	.9800	.8637	137	109.9143	1.2828	.7228
98	65.6094	.9880	.8643	138	111.1971	1.2895	.7152
99	66.5974	.9960	.8646	139	112.4866	1.2959	.7074
100	67.5934	1.0040	.8647	140	113.7825	1.3025	.6996
101	68.5974	1.0120	.8646	141	115.0850	1.3088	.6914
102	69.6094	1.0200	.8643	142	116.3938	1.3151	.6832
103	70.6294	1.0280	.8637	143	117.7089	1.3214	.6749
104	71.6574	1.0359	.8630	144	119.0303	1.3275	.6663
105	72.6933	1.0439	.8621	145	120.3578	1.3337	.6576
106	73.7372	1.0519	.8609	146	121.6915	1.3396	.6486
107	74.7891	1.0599	.8595	147	123.0311	1.3455	.6395
108	75.8490	1.0677	.8578	148	124.3766	1.3514	.6304
109	76.9167	1.0757	.8561	149	125.7280	1.3571	.6209
110	77.9924	1.0836	.8541	150	127.0851	1.3627	.6114
111	79.0760	1.0914	.8518	151	128.4478	1.3684	.6018
112	80.1674	1.0993	.8494	152	129.8162	1.3738	.5919
113	81.2667	1.1072	.8468	153	131.1900	1.3791	.5819
114	82.3739	1.1149	.8439	154	132.5691	1.3845	.5719
115	83.4888	1.1227	.8408	155	133.9536	1.3897	.5616
116	84.6115	1.1305	.8376	156	135.3433	1.3947	.5511
117	85.7420	1.1382	.8340	157	136.7380	1.3998	.5407
118	86.8802	1.1458	.8303	158	138.1378	1.4046	.5300
119	88.0260	1.1535	.8265	159	139.5424	1.4095	.5192
120	89.1795	1.1611	.8224	160	140.9519	1.4141	.5082

$e = 66^c$				$e = 67^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	140.9519	1.4141	.5082	0	.0000	.5046	.0000
161	142.3660	1.4188	.4973	1	.5046	.5046	.0137
162	143.7848	1.4232	.4860	2	1.0092	.5050	.0275
163	145.2080	1.4277	.4748	3	1.5142	.5053	.0411
164	146.6357	1.4319	.4633	4	2.0195	.5058	.0548
165	148.0676	1.4361	.4518	5	2.5253	.5063	.0684
166	149.5037	1.4402	.4402	6	3.0316	.5072	.0822
167	150.9439	1.4441	.4284	7	3.5388	.5080	.0957
168	152.3880	1.4480	.4166	8	4.0468	.5089	.1093
169	153.8360	1.4517	.4046	9	4.5557	.5101	.1229
170	155.2877	1.4554	.3926	10	5.0658	.5112	.1365
171	156.7431	1.4588	.3804	11	5.5770	.5126	.1500
172	158.2019	1.4623	.3682	12	6.0896	.5141	.1635
173	159.6642	1.4656	.3559	13	6.6037	.5157	.1769
174	161.1298	1.4687	.3434	14	7.1194	.5173	.1903
175	162.5985	1.4718	.3309	15	7.6367	.5192	.2037
176	164.0703	1.4748	.3184	16	8.1559	.5210	.2169
177	165.5451	1.4776	.3056	17	8.6769	.5232	.2303
178	167.0227	1.4802	.2929	18	9.2001	.5253	.2434
179	168.5029	1.4829	.2801	19	9.7254	.5276	.2566
180	169.9858	1.4854	.2672	20	10.2530	.5300	.2696
181	171.4712	1.4877	.2542	21	10.7830	.5326	.2826
182	172.9589	1.4899	.2412	22	11.3156	.5351	.2955
183	174.4488	1.4920	.2281	23	11.8507	.5380	.3084
184	175.9408	1.4940	.2151	24	12.3887	.5407	.3211
185	177.4348	1.4959	.2019	25	12.9294	.5438	.3339
186	178.9307	1.4977	.1887	26	13.4732	.5469	.3465
187	180.4284	1.4992	.1753	27	14.0201	.5500	.3590
188	181.9276	1.5008	.1620	28	14.5701	.5534	.3715
189	183.4284	1.5021	.1486	29	15.1235	.5568	.3838
190	184.9305	1.5034	.1353	30	15.6803	.5603	.3961
191	186.4339	1.5045	.1218	31	16.2406	.5640	.4083
192	187.9384	1.5055	.1084	32	16.8046	.5677	.4203
193	189.4439	1.5064	.0949	33	17.3723	.5716	.4323
194	190.9503	1.5071	.0813	34	17.9439	.5755	.4441
195	192.4574	1.5078	.0679	35	18.5194	.5796	.4559
196	193.9652	1.5082	.0543	36	19.0990	.5838	.4675
197	195.4734	1.5087	.0408	37	19.6828	.5880	.4790
198	196.9821	1.5089	.0271	38	20.2708	.5925	.4904
199	198.4910	1.5090	.0136	39	20.8633	.5968	.5016
200	200.0000	1.5090	.0000	40	21.4601	.6015	.5129

$e = 67^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	21.4601	.6015	.5129	80	50.0019	.8506	.8298
41	22.0616	.6062	.5239	81	50.8525	.8580	.8339
42	22.6678	.6109	.5347	82	51.7105	.8655	.8379
43	23.2787	.6157	.5455	83	52.5760	.8731	.8416
44	23.8944	.6208	.5562	84	53.4491	.8805	.8450
45	24.5152	.6258	.5666	85	54.3296	.8882	.8484
46	25.1410	.6309	.5770	86	55.2178	.8957	.8514
47	25.7719	.6362	.5872	87	56.1135	.9033	.8543
48	26.4081	.6415	.5973	88	57.0168	.9110	.8570
49	27.0496	.6469	.6072	89	57.9278	.9187	.8595
50	27.6965	.6524	.6170	90	58.8465	.9263	.8617
51	28.3489	.6581	.6266	91	59.7728	.9340	.8638
52	29.0070	.6636	.6360	92	60.7068	.9418	.8656
53	29.6706	.6695	.6454	93	61.6486	.9495	.8672
54	30.3401	.6753	.6544	94	62.5981	.9573	.8686
55	31.0154	.6812	.6634	95	63.5554	.9650	.8698
56	31.6966	.6872	.6722	96	64.5204	.9727	.8707
57	32.3838	.6932	.6809	97	65.4931	.9806	.8716
58	33.0770	.6994	.6894	98	66.4737	.9883	.8720
59	33.7764	.7057	.6978	99	67.4620	.9961	.8724
60	34.4821	.7119	.7058	100	68.4581	1.0039	.8725
61	35.1940	.7183	.7138	101	69.4620	1.0117	.8724
62	35.9123	.7248	.7216	102	70.4737	1.0194	.8720
63	36.6371	.7312	.7292	103	71.4931	1.0273	.8716
64	37.3683	.7378	.7367	104	72.5204	1.0350	.8707
65	38.1061	.7445	.7439	105	73.5554	1.0427	.8698
66	38.8506	.7511	.7510	106	74.5981	1.0505	.8686
67	39.6017	.7579	.7579	107	75.6486	1.0582	.8672
68	40.3596	.7648	.7646	108	76.7068	1.0660	.8656
69	41.1244	.7716	.7710	109	77.7728	1.0737	.8638
70	41.8960	.7785	.7774	110	78.8465	1.0813	.8617
71	42.6745	.7856	.7835	111	79.9278	1.0890	.8595
72	43.4601	.7925	.7894	112	81.0168	1.0967	.8570
73	44.2526	.7997	.7952	113	82.1135	1.1043	.8543
74	45.0523	.8068	.8007	114	83.2178	1.1118	.8514
75	45.8591	.8140	.8061	115	84.3296	1.1195	.8484
76	46.6731	.8212	.8112	116	85.4491	1.1269	.8450
77	47.4943	.8286	.8162	117	86.5760	1.1345	.8416
78	48.3229	.8358	.8209	118	87.7105	1.1420	.8379
79	49.1587	.8432	.8254	119	88.8525	1.1494	.8339
80	50.0019	.8506	.8298	120	90.0019	1.1568	.8298

$e = 67^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	90.0019	1.1568	.8298	160	141.4601	1.4032	.5129
121	91.1587	1.1642	.8254	161	142.8633	1.4075	.5016
122	92.3229	1.1714	.8209	162	144.2708	1.4120	.4904
123	93.4943	1.1788	.8162	163	145.6828	1.4162	.4790
124	94.6731	1.1860	.8112	164	147.0990	1.4204	.4675
125	95.8591	1.1932	.8061	165	148.5194	1.4245	.4559
126	97.0523	1.2003	.8007	166	149.9439	1.4284	.4441
127	98.2526	1.2075	.7952	167	151.3723	1.4323	.4323
128	99.4601	1.2144	.7894	168	152.8046	1.4360	.4203
129	100.6745	1.2215	.7835	169	154.2406	1.4397	.4083
130	101.8960	1.2284	.7774	170	155.6803	1.4432	.3961
131	103.1244	1.2352	.7710	171	157.1235	1.4466	.3838
132	104.3596	1.2421	.7646	172	158.5701	1.4500	.3715
133	105.6017	1.2489	.7579	173	160.0201	1.4531	.3590
134	106.8506	1.2555	.7510	174	161.4732	1.4562	.3465
135	108.1061	1.2622	.7439	175	162.9294	1.4593	.3339
136	109.3683	1.2688	.7367	176	164.3887	1.4620	.3211
137	110.6371	1.2752	.7292	177	165.8507	1.4649	.3084
138	111.9123	1.2817	.7216	178	167.3156	1.4674	.2955
139	113.1940	1.2881	.7138	179	168.7830	1.4700	.2826
140	114.4821	1.2943	.7058	180	170.2530	1.4724	.2696
141	115.7764	1.3006	.6978	181	171.7254	1.4747	.2566
142	117.0770	1.3068	.6894	182	173.2001	1.4768	.2434
143	118.3838	1.3128	.6809	183	174.6769	1.4790	.2303
144	119.6966	1.3188	.6722	184	176.1559	1.4808	.2169
145	121.0154	1.3247	.6634	185	177.6367	1.4827	.2037
146	122.3401	1.3305	.6544	186	179.1194	1.4843	.1903
147	123.6706	1.3364	.6454	187	180.6037	1.4859	.1769
148	125.0070	1.3419	.6360	188	182.0896	1.4874	.1635
149	126.3489	1.3476	.6266	189	183.5770	1.4888	.1500
150	127.6965	1.3531	.6170	190	185.0658	1.4899	.1365
151	129.0496	1.3585	.6072	191	186.5557	1.4911	.1229
152	130.4081	1.3638	.5973	192	188.0468	1.4920	.1093
153	131.7719	1.3691	.5872	193	189.5388	1.4928	.0957
154	133.1410	1.3742	.5770	194	191.0316	1.4937	.0822
155	134.5152	1.3792	.5666	195	192.5253	1.4942	.0684
156	135.8944	1.3843	.5562	196	194.0195	1.4947	.0548
157	137.2787	1.3891	.5455	197	195.5142	1.4950	.0411
158	138.6678	1.3938	.5347	198	197.0092	1.4954	.0275
159	140.0616	1.3985	.5239	199	198.5046	1.4954	.0137
160	141.4601	1.4032	.5129	200	200.0000	1.4954	.0000

$e = 68^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.5183	.0000	40	21.9730	.6125	.5173
1	.5183	.5184	.0138	41	22.5855	.6170	.5284
2	1.0367	.5186	.0276	42	23.2025	.6217	.5394
3	1.5553	.5190	.0414	43	23.8242	.6264	.5502
4	2.0743	.5194	.0552	44	24.4506	.6312	.5610
5	2.5937	.5201	.0691	45	25.0818	.6362	.5716
6	3.1138	.5207	.0828	46	25.7180	.6411	.5820
7	3.6345	.5216	.0966	47	26.3591	.6463	.5923
8	4.1561	.5225	.1103	48	27.0054	.6514	.6024
9	4.6786	.5237	.1240	49	27.6568	.6567	.6124
10	5.2023	.5247	.1376	50	28.3135	.6620	.6223
11	5.7270	.5261	.1513	51	28.9755	.6675	.6320
12	6.2531	.5275	.1649	52	29.6430	.6730	.6415
13	6.7806	.5291	.1785	53	30.3160	.6785	.6509
14	7.3097	.5307	.1920	54	30.9945	.6843	.6602
15	7.8404	.5324	.2054	55	31.6788	.6900	.6692
16	8.3728	.5344	.2189	56	32.3688	.6959	.6781
17	8.9072	.5363	.2322	57	33.0647	.7017	.6868
18	9.4435	.5385	.2455	58	33.7664	.7078	.6954
19	9.9820	.5406	.2587	59	34.4742	.7137	.7037
20	10.5226	.5430	.2720	60	35.1879	.7199	.7120
21	11.0656	.5455	.2851	61	35.9078	.7261	.7201
22	11.6111	.5480	.2981	62	36.6339	.7324	.7279
23	12.1591	.5507	.3111	63	37.3663	.7387	.7356
24	12.7098	.5535	.3240	64	38.1050	.7450	.7430
25	13.2633	.5564	.3368	65	38.8500	.7516	.7504
26	13.8197	.5594	.3495	66	39.6016	.7580	.7575
27	14.3791	.5625	.3622	67	40.3596	.7646	.7644
28	14.9416	.5657	.3747	68	41.1242	.7712	.7712
29	15.5073	.5691	.3872	69	41.8954	.7780	.7778
30	16.0764	.5725	.3995	70	42.6734	.7846	.7841
31	16.6489	.5760	.4118	71	43.4580	.7915	.7904
32	17.2249	.5797	.4240	72	44.2495	.7983	.7963
33	17.8046	.5834	.4360	73	45.0478	.8052	.8021
34	18.3880	.5873	.4480	74	45.8530	.8122	.8077
35	18.9753	.5912	.4598	75	46.6652	.8191	.8130
36	19.5665	.5953	.4716	76	47.4843	.8262	.8183
37	20.1618	.5994	.4832	77	48.3105	.8333	.8232
38	20.7612	.6037	.4947	78	49.1438	.8403	.8280
39	21.3649	.6081	.5061	79	49.9841	.8476	.8326
40	21.9730	.6125	.5173	80	50.8317	.8547	.8370



$e = 68^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	50.8317	.8547	.8370	120	90.8317	1.1524	.8370
81	51.6864	.8620	.8412	121	91.9841	1.1597	.8326
82	52.5484	.8692	.8451	122	93.1438	1.1667	.8280
83	53.4176	.8765	.8489	123	94.3105	1.1738	.8232
84	54.2941	.8839	.8524	124	95.4843	1.1809	.8183
85	55.1780	.8912	.8557	125	96.6652	1.1878	.8130
86	56.0692	.8986	.8589	126	97.8530	1.1948	.8077
87	56.9678	.9060	.8618	127	99.0478	1.2017	.8021
88	57.8738	.9135	.8645	128	100.2495	1.2085	.7963
89	58.7873	.9209	.8669	129	101.4580	1.2154	.7904
90	59.7082	.9284	.8692	130	102.6734	1.2220	.7841
91	60.6366	.9358	.8713	131	103.8954	1.2288	.7778
92	61.5724	.9434	.8732	132	105.1242	1.2354	.7712
93	62.5158	.9509	.8748	133	106.3596	1.2420	.7644
94	63.4667	.9585	.8762	134	107.6016	1.2484	.7575
95	64.4252	.9659	.8773	135	108.8500	1.2550	.7504
96	65.3911	.9736	.8783	136	110.1050	1.2613	.7430
97	66.3647	.9810	.8790	137	111.3663	1.2676	.7356
98	67.3457	.9887	.8797	138	112.6339	1.2739	.7279
99	68.3344	.9962	.8799	139	113.9078	1.2801	.7201
100	69.3306	1.0038	.8801	140	115.1879	1.2863	.7120
101	70.3344	1.0113	.8799	141	116.4742	1.2922	.7037
102	71.3457	1.0190	.8797	142	117.7664	1.2983	.6954
103	72.3647	1.0264	.8790	143	119.0647	1.3041	.6868
104	73.3911	1.0341	.8783	144	120.3688	1.3100	.6781
105	74.4252	1.0415	.8773	145	121.6788	1.3157	.6692
106	75.4667	1.0491	.8762	146	122.9945	1.3215	.6602
107	76.5158	1.0566	.8748	147	124.3160	1.3270	.6509
108	77.5724	1.0642	.8732	148	125.6430	1.3325	.6415
109	78.6366	1.0716	.8713	149	126.9755	1.3380	.6320
110	79.7082	1.0791	.8692	150	128.3135	1.3433	.6223
111	80.7873	1.0865	.8669	151	129.6568	1.3486	.6124
112	81.8738	1.0940	.8645	152	131.0054	1.3537	.6024
113	82.9678	1.1014	.8618	153	132.3591	1.3589	.5923
114	84.0692	1.1088	.8589	154	133.7180	1.3638	.5820
115	85.1780	1.1161	.8557	155	135.0818	1.3688	.5716
116	86.2941	1.1235	.8524	156	136.4506	1.3736	.5610
117	87.4176	1.1308	.8489	157	137.8242	1.3783	.5502
118	88.5484	1.1380	.8451	158	139.2025	1.3830	.5394
119	89.6864	1.1453	.8412	159	140.5855	1.3875	.5284
120	90.8317	1.1524	.8370	160	141.9730	1.3919	.5173

$e = 68^c$				$e = 69^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	141.9730	1.3919	.5173	0	.0000	.5321	.0000
161	143.3649	1.3963	.5061	1	.5321	.5322	.0139
162	144.7612	1.4006	.4947	2	1.0643	.5324	.0279
163	146.1618	1.4047	.4832	3	1.5967	.5328	.0418
164	147.5665	1.4088	.4716	4	2.1295	.5333	.0557
165	148.9753	1.4127	.4598	5	2.6628	.5338	.0696
166	150.3880	1.4166	.4480	6	3.1966	.5345	.0835
167	151.8046	1.4203	.4360	7	3.7311	.5353	.0974
168	153.2249	1.4240	.4240	8	4.2664	.5362	.1112
169	154.6489	1.4275	.4118	9	4.8026	.5373	.1251
170	156.0764	1.4309	.3995	10	5.3399	.5384	.1388
171	157.5073	1.4343	.3872	11	5.8783	.5397	.1526
172	158.9416	1.4375	.3747	12	6.4180	.5411	.1663
173	160.3791	1.4406	.3622	13	6.9591	.5426	.1800
174	161.8197	1.4436	.3495	14	7.5017	.5441	.1935
175	163.2633	1.4465	.3368	15	8.0458	.5459	.2072
176	164.7098	1.4493	.3240	16	8.5917	.5477	.2207
177	166.1591	1.4520	.3111	17	9.1394	.5496	.2342
178	167.6111	1.4545	.2981	18	9.6890	.5517	.2476
179	169.0656	1.4570	.2851	19	10.2407	.5539	.2610
180	170.5226	1.4594	.2720	20	10.7946	.5561	.2742
181	171.9820	1.4615	.2587	21	11.3507	.5585	.2875
182	173.4435	1.4637	.2455	22	11.9092	.5610	.3006
183	174.9072	1.4656	.2322	23	12.4702	.5636	.3137
184	176.3728	1.4676	.2189	24	13.0338	.5663	.3267
185	177.8404	1.4693	.2054	25	13.6001	.5691	.3396
186	179.3097	1.4709	.1920	26	14.1692	.5721	.3525
187	180.7806	1.4725	.1785	27	14.7413	.5750	.3651
188	182.2531	1.4739	.1649	28	15.3163	.5782	.3779
189	183.7270	1.4753	.1513	29	15.8945	.5814	.3904
190	185.2023	1.4763	.1376	30	16.4759	.5848	.4029
191	186.6786	1.4775	.1240	31	17.0607	.5882	.4152
192	188.1561	1.4784	.1103	32	17.6489	.5917	.4275
193	189.6345	1.4793	.0966	33	18.2406	.5954	.4397
194	191.1138	1.4799	.0828	34	18.8360	.5991	.4517
195	192.5937	1.4806	.0691	35	19.4351	.6030	.4637
196	194.0743	1.4810	.0552	36	20.0381	.6069	.4755
197	195.5553	1.4814	.0414	37	20.6450	.6109	.4872
198	197.0367	1.4816	.0276	38	21.2559	.6151	.4988
199	198.5183	1.4817	.0138	39	21.8710	.6193	.5102
200	200.0000	1.4817	.0000	40	22.4903	.6236	.5216

$e = 69^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	22.4903	.6236	.5216	80	51.6687	.8589	.8439
41	23.1139	.6280	.5328	81	52.5276	.8659	.8481
42	23.7419	.6325	.5439	82	53.3935	.8730	.8522
43	24.3744	.6372	.5549	83	54.2665	.8800	.8559
44	25.0116	.6418	.5656	84	55.1465	.8872	.8596
45	25.6534	.6466	.5763	85	56.0337	.8944	.8629
46	26.3000	.6514	.5868	86	56.9281	.9015	.8660
47	26.9514	.6564	.5972	87	57.8296	.9087	.8690
48	27.6078	.6614	.6075	88	58.7383	.9159	.8717
49	28.2692	.6666	.6176	89	59.6542	.9232	.8742
50	28.9358	.6717	.6274	90	60.5774	.9305	.8765
51	29.6075	.6770	.6373	91	61.5079	.9377	.8785
52	30.2845	.6824	.6469	92	62.4456	.9450	.8804
53	30.9669	.6878	.6563	93	63.3906	.9523	.8820
54	31.6547	.6933	.6656	94	64.3429	.9596	.8834
55	32.3480	.6989	.6748	95	65.3025	.9669	.8847
56	33.0469	.7046	.6838	96	66.2694	.9743	.8857
57	33.7515	.7103	.6926	97	67.2437	.9817	.8865
58	34.4618	.7161	.7012	98	68.2254	.9889	.8869
59	35.1779	.7220	.7097	99	69.2143	.9964	.8873
60	35.8999	.7280	.7179	100	70.2107	1.0036	.8874
61	36.6279	.7339	.7260	101	71.2143	1.0111	.8873
62	37.3618	.7401	.7340	102	72.2254	1.0183	.8869
63	38.1019	.7461	.7417	103	73.2437	1.0257	.8865
64	38.8480	.7524	.7493	104	74.2694	1.0331	.8857
65	39.6004	.7587	.7567	105	75.3025	1.0404	.8847
66	40.3591	.7649	.7638	106	76.3429	1.0477	.8834
67	41.1240	.7714	.7709	107	77.3906	1.0550	.8820
68	41.8954	.7778	.7776	108	78.4456	1.0623	.8804
69	42.6732	.7843	.7843	109	79.5079	1.0695	.8785
70	43.4575	.7909	.7907	110	80.5774	1.0768	.8765
71	44.2484	.7974	.7969	111	81.6542	1.0841	.8742
72	45.0458	.8041	.8029	112	82.7383	1.0913	.8717
73	45.8499	.8108	.8088	113	83.8296	1.0985	.8690
74	46.6607	.8175	.8144	114	84.9281	1.1056	.8660
75	47.4782	.8244	.8199	115	86.0337	1.1128	.8629
76	48.3026	.8311	.8251	116	87.1465	1.1200	.8596
77	49.1337	.8381	.8302	117	88.2665	1.1270	.8559
78	49.9718	.8449	.8349	118	89.3935	1.1341	.8522
79	50.8167	.8520	.8396	119	90.5276	1.1411	.8481
80	51.6687	.8589	.8439	120	91.6687	1.1480	.8439

$e = 69^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	91.6687	1.1480	.8439	160	142.4903	1.3807	.5216
121	92.8167	1.1551	.8396	161	143.8710	1.3849	.5102
122	93.9718	1.1619	.8349	162	145.2559	1.3891	.4988
123	95.1337	1.1689	.8302	163	146.6450	1.3931	.4872
124	96.3026	1.1756	.8251	164	148.0381	1.3970	.4755
125	97.4782	1.1825	.8199	165	149.4351	1.4009	.4637
126	98.6607	1.1892	.8144	166	150.8360	1.4046	.4517
127	99.8499	1.1959	.8088	167	152.2406	1.4083	.4397
128	101.0458	1.2026	.8029	168	153.6489	1.4118	.4275
129	102.2484	1.2091	.7969	169	155.0607	1.4152	.4152
130	103.4575	1.2157	.7907	170	156.4759	1.4186	.4029
131	104.6732	1.2222	.7843	171	157.8945	1.4218	.3904
132	105.8954	1.2286	.7776	172	159.3163	1.4250	.3779
133	107.1240	1.2351	.7709	173	160.7413	1.4279	.3651
134	108.3591	1.2413	.7638	174	162.1692	1.4309	.3525
135	109.6004	1.2476	.7567	175	163.6001	1.4337	.3396
136	110.8480	1.2539	.7493	176	165.0338	1.4364	.3267
137	112.1019	1.2599	.7417	177	166.4702	1.4390	.3137
138	113.3618	1.2661	.7340	178	167.9092	1.4415	.3006
139	114.6279	1.2720	.7260	179	169.3507	1.4439	.2875
140	115.8999	1.2780	.7179	180	170.7946	1.4461	.2742
141	117.1779	1.2839	.7097	181	172.2407	1.4483	.2610
142	118.4618	1.2897	.7012	182	173.6890	1.4504	.2476
143	119.7515	1.2954	.6926	183	175.1394	1.4523	.2342
144	121.0469	1.3011	.6838	184	176.5917	1.4541	.2207
145	122.3480	1.3067	.6748	185	178.0458	1.4559	.2072
146	123.6547	1.3122	.6656	186	179.5017	1.4574	.1935
147	124.9669	1.3176	.6563	187	180.9591	1.4589	.1800
148	126.2845	1.3230	.6469	188	182.4180	1.4603	.1663
149	127.6075	1.3283	.6373	189	183.8783	1.4616	.1526
150	128.9358	1.3334	.6274	190	185.3399	1.4627	.1388
151	130.2692	1.3386	.6176	191	186.8026	1.4638	.1251
152	131.6078	1.3436	.6075	192	188.2664	1.4647	.1112
153	132.9514	1.3486	.5972	193	189.7311	1.4655	.0974
154	134.3000	1.3534	.5868	194	191.1966	1.4662	.0835
155	135.6534	1.3582	.5763	195	192.6628	1.4667	.0696
156	137.0116	1.3628	.5656	196	194.1295	1.4672	.0557
157	138.3744	1.3675	.5549	197	195.5967	1.4676	.0418
158	139.7419	1.3720	.5439	198	197.0643	1.4678	.0279
159	141.1139	1.3764	.5328	199	198.5321	1.4679	.0139
160	142.4903	1.3807	.5216	200	200.0000	1.4679	.0000

$e = 70^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.5460	.0000	40	23.0119	.6348	.5258
1	.5460	.5462	.0141	41	23.6467	.6391	.5371
2	1.0922	.5463	.0281	42	24.2858	.6435	.5483
3	1.6385	.5467	.0422	43	24.9293	.6479	.5593
4	2.1852	.5472	.0562	44	25.5772	.6525	.5702
5	2.7324	.5477	.0702	45	26.2297	.6571	.5810
6	3.2801	.5484	.0842	46	26.8868	.6618	.5916
7	3.8285	.5491	.0981	47	27.5486	.6667	.6021
8	4.3776	.5501	.1121	48	28.2153	.6715	.6123
9	4.9277	.5510	.1260	49	28.8868	.6764	.6225
10	5.4787	.5522	.1400	50	29.5632	.6816	.6326
11	6.0309	.5534	.1538	51	30.2448	.6866	.6424
12	6.5843	.5548	.1676	52	30.9314	.6918	.6521
13	7.1391	.5561	.1814	53	31.6232	.6971	.6617
14	7.6952	.5578	.1952	54	32.3203	.7025	.6710
15	8.2530	.5594	.2088	55	33.0228	.7079	.6802
16	8.8124	.5612	.2224	56	33.7307	.7134	.6892
17	9.3736	.5630	.2360	57	34.4441	.7189	.6981
18	9.9366	.5651	.2496	58	35.1630	.7246	.7068
19	10.5017	.5671	.2630	59	35.8876	.7302	.7153
20	11.0688	.5694	.2764	60	36.6178	.7361	.7237
21	11.6382	.5716	.2897	61	37.3539	.7419	.7319
22	12.2098	.5741	.3030	62	38.0958	.7478	.7398
23	12.7839	.5766	.3162	63	38.8436	.7537	.7476
24	13.3605	.5792	.3293	64	39.5973	.7598	.7553
25	13.9397	.5820	.3423	65	40.3571	.7658	.7627
26	14.5217	.5847	.3552	66	41.1229	.7720	.7700
27	15.1064	.5878	.3682	67	41.8949	.7781	.7770
28	15.6942	.5907	.3808	68	42.6730	.7845	.7839
29	16.2849	.5939	.3935	69	43.4575	.7907	.7905
30	16.8788	.5971	.4061	70	44.2482	.7971	.7970
31	17.4759	.6005	.4186	71	45.0453	.8034	.8033
32	18.0764	.6039	.4309	72	45.8487	.8100	.8094
33	18.6803	.6074	.4432	73	46.6587	.8164	.8153
34	19.2877	.6111	.4554	74	47.4751	.8230	.8210
35	19.8988	.6148	.4674	75	48.2981	.8296	.8264
36	20.5136	.6186	.4793	76	49.1277	.8362	.8317
37	21.1322	.6225	.4911	77	49.9639	.8428	.8367
38	21.7547	.6265	.5028	78	50.8067	.8496	.8417
39	22.3812	.6307	.5144	79	51.6563	.8563	.8463
40	23.0119	.6348	.5258	80	52.5126	.8631	.8508

$e = 70^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	52.5126	.8631	.8508	120	92.5126	1.1437	.8508
81	53.3757	.8700	.8550	121	93.6563	1.1504	.8463
82	54.2457	.8767	.8590	122	94.8067	1.1572	.8417
83	55.1224	.8837	.8629	123	95.9639	1.1638	.8367
84	56.0061	.8905	.8664	124	97.1277	1.1704	.8317
85	56.8966	.8975	.8698	125	98.2981	1.1770	.8264
86	57.7941	.9045	.8730	126	99.4751	1.1836	.8210
87	58.6986	.9114	.8759	127	100.6587	1.1900	.8153
88	59.6100	.9184	.8787	128	101.8487	1.1966	.8094
89	60.5284	.9255	.8813	129	103.0453	1.2029	.8033
90	61.4539	.9325	.8835	130	104.2482	1.2093	.7970
91	62.3864	.9396	.8856	131	105.4575	1.2155	.7905
92	63.3260	.9466	.8874	132	106.6730	1.2219	.7839
93	64.2726	.9537	.8891	133	107.8949	1.2280	.7770
94	65.2263	.9609	.8906	134	109.1229	1.2342	.7700
95	66.1872	.9679	.8917	135	110.3571	1.2402	.7627
96	67.1551	.9751	.8928	136	111.5973	1.2463	.7553
97	68.1302	.9821	.8935	137	112.8436	1.2522	.7476
98	69.1123	.9893	.8941	138	114.0958	1.2581	.7398
99	70.1016	.9965	.8945	139	115.3539	1.2639	.7319
100	71.0981	1.0035	.8945	140	116.6178	1.2698	.7237
101	72.1016	1.0107	.8945	141	117.8876	1.2754	.7153
102	73.1123	1.0179	.8941	142	119.1630	1.2811	.7068
103	74.1302	1.0249	.8935	143	120.4441	1.2866	.6981
104	75.1551	1.0321	.8928	144	121.7307	1.2921	.6892
105	76.1872	1.0391	.8917	145	123.0228	1.2975	.6802
106	77.2263	1.0463	.8906	146	124.3203	1.3029	.6710
107	78.2726	1.0534	.8891	147	125.6232	1.3082	.6617
108	79.3260	1.0604	.8874	148	126.9314	1.3134	.6521
109	80.3864	1.0675	.8856	149	128.2448	1.3184	.6424
110	81.4539	1.0745	.8835	150	129.5632	1.3236	.6326
111	82.5284	1.0816	.8813	151	130.8868	1.3285	.6225
112	83.6100	1.0886	.8787	152	132.2153	1.3333	.6123
113	84.6986	1.0955	.8759	153	133.5486	1.3382	.6021
114	85.7941	1.1025	.8730	154	134.8868	1.3429	.5916
115	86.8966	1.1095	.8698	155	136.2297	1.3475	.5810
116	88.0061	1.1163	.8664	156	137.5772	1.3521	.5702
117	89.1224	1.1233	.8629	157	138.9293	1.3565	.5593
118	90.2457	1.1300	.8590	158	140.2858	1.3609	.5483
119	91.3757	1.1369	.8550	159	141.6467	1.3652	.5371
120	92.5126	1.1437	.8508	160	143.0119	1.3693	.5258

$e = 70^{\circ}$				$e = 71^{\circ}$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	143.0119	1.3693	.5258	0	.0000	.5601	.0000
161	144.3812	1.3735	.5144	1	.5601	.5602	.0141
162	145.7547	1.3775	.5028	2	1.1203	.5604	.0283
163	147.1322	1.3814	.4911	3	1.6807	.5607	.0424
164	148.5136	1.3852	.4793	4	2.2414	.5612	.0566
165	149.8988	1.3889	.4674	5	2.8026	.5617	.0707
166	151.2877	1.3926	.4554	6	3.3643	.5623	.0848
167	152.6803	1.3961	.4432	7	3.9266	.5631	.0989
168	154.0764	1.3995	.4309	8	4.4897	.5640	.1130
169	155.4759	1.4029	.4186	9	5.0537	.5650	.1270
170	156.8788	1.4061	.4061	10	5.6187	.5660	.1410
171	158.2849	1.4093	.3935	11	6.1847	.5672	.1550
172	159.6942	1.4122	.3808	12	6.7519	.5686	.1690
173	161.1064	1.4153	.3682	13	7.3205	.5699	.1828
174	162.5217	1.4180	.3552	14	7.8904	.5714	.1966
175	163.9397	1.4208	.3423	15	8.4618	.5730	.2104
176	165.3605	1.4234	.3293	16	9.0348	.5748	.2242
177	166.7839	1.4259	.3162	17	9.6096	.5766	.2379
178	168.2098	1.4284	.3030	18	10.1862	.5785	.2515
179	169.6382	1.4306	.2897	19	10.7647	.5805	.2651
180	171.0688	1.4329	.2764	20	11.3452	.5827	.2786
181	172.5017	1.4349	.2630	21	11.9279	.5849	.2920
182	173.9366	1.4370	.2496	22	12.5128	.5873	.3054
183	175.3736	1.4388	.2360	23	13.1001	.5897	.3186
184	176.8124	1.4406	.2224	24	13.6898	.5922	.3318
185	178.2530	1.4422	.2088	25	14.2820	.5949	.3450
186	179.6952	1.4439	.1952	26	14.8769	.5977	.3580
187	181.1391	1.4452	.1814	27	15.4746	.6004	.3709
188	182.5843	1.4466	.1676	28	16.0750	.6034	.3838
189	184.0309	1.4478	.1538	29	16.6784	.6065	.3966
190	185.4787	1.4490	.1400	30	17.2849	.6096	.4093
191	186.9277	1.4499	.1260	31	17.8945	.6128	.4218
192	188.3776	1.4509	.1121	32	18.5073	.6162	.4343
193	189.8285	1.4516	.0981	33	19.1235	.6196	.4466
194	191.2801	1.4523	.0842	34	19.7431	.6231	.4588
195	192.7324	1.4528	.0702	35	20.3662	.6267	.4710
196	194.1852	1.4533	.0562	36	20.9929	.6304	.4830
197	195.6385	1.4537	.0422	37	21.6233	.6342	.4949
198	197.0922	1.4538	.0281	38	22.2575	.6381	.5067
199	198.5460	1.4540	.0141	39	22.8956	.6421	.5183
200	200.0000	1.4540	.0000	40	23.5377	.6461	.5298

$e = 71^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	23.5377	.6461	.5298	80	53.3634	.8673	.8573
41	24.1838	.6503	.5412	81	54.2307	.8740	.8616
42	24.8341	.6545	.5525	82	55.1047	.8806	.8656
43	25.4886	.6588	.5636	83	55.9853	.8872	.8695
44	26.1474	.6633	.5746	84	56.8725	.8939	.8731
45	26.8107	.6677	.5854	85	57.7664	.9007	.8766
46	27.4784	.6723	.5961	86	58.6671	.9074	.8797
47	28.1507	.6769	.6067	87	59.5745	.9142	.8827
48	28.8276	.6817	.6171	88	60.4887	.9210	.8855
49	29.5093	.6865	.6273	89	61.4097	.9277	.8880
50	30.1958	.6914	.6374	90	62.3374	.9346	.8904
51	30.8872	.6963	.6473	91	63.2720	.9414	.8925
52	31.5835	.7014	.6571	92	64.2134	.9483	.8944
53	32.2849	.7064	.6667	93	65.1617	.9552	.8960
54	32.9913	.7117	.6762	94	66.1169	.9620	.8974
55	33.7030	.7169	.6855	95	67.0789	.9690	.8987
56	34.4199	.7223	.6946	96	68.0479	.9758	.8996
57	35.1422	.7276	.7035	97	69.0237	.9827	.9004
58	35.8698	.7331	.7123	98	70.0064	.9897	.9010
59	36.6029	.7386	.7209	99	70.9961	.9965	.9013
60	37.3415	.7443	.7293	100	71.9926	1.0035	.9014
61	38.0858	.7498	.7375	101	72.9961	1.0103	.9013
62	38.8356	.7556	.7456	102	74.0064	1.0173	.9010
63	39.5912	.7614	.7534	103	75.0237	1.0242	.9004
64	40.3526	.7672	.7611	104	76.0479	1.0310	.8996
65	41.1198	.7731	.7686	105	77.0789	1.0380	.8987
66	41.8929	.7790	.7759	106	78.1169	1.0448	.8974
67	42.6719	.7850	.7830	107	79.1617	1.0517	.8960
68	43.4569	.7911	.7900	108	80.2134	1.0586	.8944
69	44.2480	.7972	.7967	109	81.2720	1.0654	.8925
70	45.0452	.8034	.8032	110	82.3374	1.0723	.8904
71	45.8486	.8095	.8095	111	83.4097	1.0790	.8880
72	46.6581	.8159	.8157	112	84.4887	1.0858	.8855
73	47.4740	.8221	.8215	113	85.5745	1.0926	.8827
74	48.2961	.8284	.8273	114	86.6671	1.0993	.8797
75	49.1245	.8349	.8329	115	87.7664	1.1061	.8766
76	49.9594	.8412	.8381	116	88.8725	1.1128	.8731
77	50.8006	.8478	.8433	117	89.9853	1.1194	.8695
78	51.6484	.8542	.8481	118	91.1047	1.1260	.8656
79	52.5026	.8608	.8529	119	92.2307	1.1327	.8616
80	53.3634	.8673	.8573	120	93.3634	1.1392	.8573



$e = 71^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	93.3634	1.1392	.8573	160	143.5377	1.3579	.5298
121	94.5026	1.1458	.8529	161	144.8956	1.3619	.5183
122	95.6484	1.1522	.8481	162	146.2575	1.3658	.5067
123	96.8006	1.1588	.8433	163	147.6233	1.3696	.4949
124	97.9594	1.1651	.8381	164	148.9929	1.3733	.4830
125	99.1245	1.1716	.8329	165	150.3662	1.3769	.4710
126	100.2961	1.1779	.8273	166	151.7431	1.3804	.4588
127	101.4740	1.1841	.8215	167	153.1235	1.3838	.4466
128	102.6581	1.1905	.8157	168	154.5073	1.3872	.4343
129	103.8486	1.1966	.8095	169	155.8945	1.3904	.4218
130	105.0452	1.2028	.8032	170	157.2849	1.3935	.4093
131	106.2480	1.2089	.7967	171	158.6784	1.3966	.3966
132	107.4569	1.2150	.7900	172	160.0750	1.3996	.3838
133	108.6719	1.2210	.7830	173	161.4746	1.4023	.3709
134	109.8929	1.2269	.7759	174	162.8769	1.4051	.3580
135	111.1198	1.2328	.7686	175	164.2820	1.4078	.3450
136	112.3526	1.2386	.7611	176	165.6898	1.4103	.3318
137	113.5912	1.2444	.7534	177	167.1001	1.4127	.3186
138	114.8356	1.2502	.7456	178	168.5128	1.4151	.3054
139	116.0858	1.2557	.7375	179	169.9279	1.4173	.2920
140	117.3415	1.2614	.7293	180	171.3452	1.4195	.2786
141	118.6029	1.2669	.7209	181	172.7647	1.4215	.2651
142	119.8698	1.2724	.7123	182	174.1862	1.4234	.2515
143	121.1422	1.2777	.7035	183	175.6096	1.4252	.2379
144	122.4199	1.2831	.6946	184	177.0348	1.4270	.2242
145	123.7030	1.2883	.6855	185	178.4618	1.4286	.2104
146	124.9913	1.2936	.6762	186	179.8904	1.4301	.1966
147	126.2849	1.2986	.6667	187	181.3205	1.4314	.1828
148	127.5835	1.3037	.6571	188	182.7519	1.4328	.1690
149	128.8872	1.3086	.6473	189	184.1847	1.4340	.1550
150	130.1958	1.3135	.6374	190	185.6187	1.4350	.1410
151	131.5093	1.3183	.6273	191	187.0537	1.4360	.1270
152	132.8276	1.3231	.6171	192	188.4897	1.4369	.1130
153	134.1507	1.3277	.6067	193	189.9266	1.4377	.0989
154	135.4784	1.3323	.5961	194	191.3643	1.4383	.0848
155	136.8107	1.3367	.5854	195	192.8026	1.4388	.0707
156	138.1474	1.3412	.5746	196	194.2414	1.4393	.0566
157	139.4886	1.3455	.5636	197	195.6807	1.4396	.0424
158	140.8341	1.3497	.5525	198	197.1203	1.4398	.0283
159	142.1838	1.3539	.5412	199	198.5601	1.4399	.0141
160	143.5377	1.3579	.5298	200	200.0000	1.4399	.0000

$e = 72^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.5742	.0000	40	24.0675	.6575	.5338
1	.5742	.5744	.0143	41	24.7250	.6616	.5453
2	1.1486	.5745	.0285	42	25.3866	.6656	.5566
3	1.7231	.5749	.0428	43	26.0522	.6698	.5678
4	2.2980	.5753	.0570	44	26.7220	.6741	.5789
5	2.8733	.5758	.0712	45	27.3961	.6784	.5898
6	3.4491	.5764	.0855	46	28.0745	.6829	.6006
7	4.0255	.5772	.0997	47	28.7574	.6873	.6111
8	4.6027	.5780	.1138	48	29.4447	.6919	.6217
9	5.1807	.5790	.1280	49	30.1366	.6966	.6320
10	5.7597	.5800	.1421	50	30.8332	.7013	.6421
11	6.3397	.5812	.1561	51	31.5345	.7061	.6522
12	6.9209	.5824	.1701	52	32.2406	.7110	.6620
13	7.5033	.5837	.1841	53	32.9516	.7159	.6717
14	8.0870	.5852	.1981	54	33.6675	.7210	.6812
15	8.6722	.5868	.2120	55	34.3885	.7260	.6905
16	9.2590	.5885	.2259	56	35.1145	.7312	.6997
17	9.8475	.5902	.2396	57	35.8457	.7364	.7087
18	10.4377	.5921	.2533	58	36.5821	.7417	.7176
19	11.0298	.5940	.2670	59	37.3238	.7470	.7262
20	11.6238	.5961	.2806	60	38.0708	.7525	.7347
21	12.2199	.5983	.2942	61	38.8233	.7579	.7430
22	12.8182	.6005	.3076	62	39.5812	.7634	.7511
23	13.4187	.6029	.3210	63	40.3446	.7691	.7591
24	14.0216	.6054	.3343	64	41.1137	.7747	.7668
25	14.6270	.6079	.3475	65	41.8884	.7804	.7743
26	15.2349	.6106	.3607	66	42.6688	.7861	.7816
27	15.8455	.6133	.3737	67	43.4549	.7920	.7888
28	16.4588	.6162	.3867	68	44.2469	.7978	.7958
29	17.0750	.6192	.3996	69	45.0447	.8037	.8026
30	17.6942	.6221	.4122	70	45.8484	.8097	.8092
31	18.3163	.6253	.4250	71	46.6581	.8157	.8155
32	18.9416	.6285	.4375	72	47.4738	.8217	.8217
33	19.5701	.6318	.4500	73	48.2955	.8279	.8277
34	20.2019	.6353	.4623	74	49.1234	.8340	.8334
35	20.8372	.6387	.4745	75	49.9574	.8401	.8390
36	21.4759	.6423	.4866	76	50.7975	.8464	.8444
37	22.1182	.6460	.4986	77	51.6439	.8526	.8495
38	22.7642	.6497	.5104	78	52.4965	.8590	.8545
39	23.4139	.6536	.5222	79	53.3555	.8652	.8591
40	24.0675	.6575	.5338	80	54.2207	.8716	.8637

$e = 72^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	54.2207	.8716	.8637	120	94.2207	1.1348	.8637
81	55.0923	.8780	.8680	121	95.3555	1.1410	.8591
82	55.9703	.8845	.8721	122	96.4965	1.1474	.8545
83	56.8548	.8908	.8759	123	97.6439	1.1536	.8495
84	57.7456	.8974	.8796	124	98.7975	1.1599	.8444
85	58.6430	.9038	.8830	125	99.9574	1.1660	.8390
86	59.5468	.9104	.8863	126	101.1234	1.1721	.8334
87	60.4572	.9170	.8893	127	102.2955	1.1783	.8277
88	61.3742	.9235	.8920	128	103.4738	1.1843	.8217
89	62.2977	.9301	.8946	129	104.6581	1.1903	.8155
90	63.2278	.9367	.8969	130	105.8484	1.1963	.8092
91	64.1645	.9433	.8990	131	107.0447	1.2022	.8026
92	65.1078	.9499	.9010	132	108.2469	1.2080	.7958
93	66.0577	.9566	.9027	133	109.4549	1.2139	.7888
94	67.0143	.9633	.9041	134	110.6688	1.2196	.7816
95	67.9776	.9699	.9053	135	111.8884	1.2253	.7743
96	68.9475	.9766	.9064	136	113.1137	1.2309	.7668
97	69.9241	.9833	.9072	137	114.3446	1.2366	.7591
98	70.9074	.9900	.9077	138	115.5812	1.2421	.7511
99	71.8974	.9966	.9080	139	116.8233	1.2475	.7430
100	72.8940	1.0034	.9082	140	118.0708	1.2530	.7347
101	73.8974	1.0100	.9080	141	119.3238	1.2583	.7262
102	74.9074	1.0167	.9077	142	120.5821	1.2636	.7176
103	75.9241	1.0234	.9072	143	121.8457	1.2688	.7087
104	76.9475	1.0301	.9064	144	123.1145	1.2740	.6997
105	77.9776	1.0367	.9053	145	124.3885	1.2790	.6905
106	79.0143	1.0434	.9041	146	125.6675	1.2841	.6812
107	80.0577	1.0501	.9027	147	126.9516	1.2890	.6717
108	81.1078	1.0567	.9010	148	128.2406	1.2939	.6620
109	82.1645	1.0633	.8990	149	129.5345	1.2987	.6522
110	83.2278	1.0699	.8969	150	130.8332	1.3034	.6421
111	84.2977	1.0765	.8946	151	132.1366	1.3081	.6320
112	85.3742	1.0830	.8920	152	133.4447	1.3127	.6217
113	86.4572	1.0896	.8893	153	134.7574	1.3171	.6111
114	87.5468	1.0962	.8863	154	136.0745	1.3216	.6006
115	88.6430	1.1026	.8830	155	137.3961	1.3259	.5898
116	89.7456	1.1092	.8796	156	138.7220	1.3302	.5789
117	90.8548	1.1155	.8759	157	140.0522	1.3344	.5678
118	91.9703	1.1220	.8721	158	141.3866	1.3384	.5566
119	93.0923	1.1284	.8680	159	142.7250	1.3425	.5453
120	94.2207	1.1348	.8637	160	144.0675	1.3464	.5338

$e = 72^{\circ}$				$e = 73^{\circ}$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	144.0675	1.3464	.5338	0	.0000	.5885	.0000
161	145.4139	1.3503	.5222	1	.5885	.5886	.0144
162	146.7642	1.3540	.5104	2	1.1771	.5888	.0287
163	148.1182	1.3577	.4986	3	1.7659	.5891	.0431
164	149.4759	1.3613	.4866	4	2.3550	.5895	.0575
165	150.8372	1.3647	.4745	5	2.9445	.5901	.0718
166	152.2019	1.3682	.4623	6	3.5346	.5906	.0860
167	153.5701	1.3715	.4500	7	4.1252	.5913	.1004
168	154.9416	1.3747	.4375	8	4.7165	.5922	.1147
169	156.3163	1.3779	.4250	9	5.3087	.5931	.1289
170	157.6942	1.3808	.4122	10	5.9018	.5940	.1430
171	159.0750	1.3838	.3996	11	6.4958	.5952	.1573
172	160.4588	1.3867	.3867	12	7.0910	.5964	.1714
173	161.8455	1.3894	.3737	13	7.6874	.5977	.1855
174	163.2349	1.3921	.3607	14	8.2851	.5991	.1995
175	164.6270	1.3946	.3475	15	8.8842	.6007	.2135
176	166.0216	1.3971	.3343	16	9.4849	.6022	.2274
177	167.4187	1.3995	.3210	17	10.0871	.6039	.2413
178	168.8182	1.4017	.3076	18	10.6910	.6058	.2552
179	170.2199	1.4039	.2942	19	11.2968	.6076	.2689
180	171.6238	1.4060	.2806	20	11.9044	.6097	.2827
181	173.0298	1.4079	.2670	21	12.5141	.6117	.2962
182	174.4377	1.4098	.2533	22	13.1258	.6139	.3098
183	175.8475	1.4115	.2396	23	13.7397	.6162	.3233
184	177.2590	1.4132	.2259	24	14.3559	.6186	.3367
185	178.6722	1.4148	.2120	25	14.9745	.6211	.3500
186	180.0870	1.4163	.1981	26	15.5956	.6236	.3632
187	181.5033	1.4176	.1841	27	16.2192	.6263	.3764
188	182.9209	1.4188	.1701	28	16.8455	.6291	.3894
189	184.3397	1.4200	.1561	29	17.4746	.6318	.4023
190	185.7597	1.4210	.1421	30	18.1064	.6349	.4153
191	187.1807	1.4220	.1280	31	18.7413	.6378	.4279
192	188.6027	1.4228	.1138	32	19.3791	.6410	.4406
193	190.0255	1.4236	.0997	33	20.0201	.6441	.4531
194	191.4491	1.4242	.0855	34	20.6642	.6475	.4656
195	192.8733	1.4247	.0712	35	21.3117	.6508	.4779
196	194.2980	1.4251	.0570	36	21.9625	.6543	.4901
197	195.7231	1.4255	.0428	37	22.6168	.6578	.5021
198	197.1486	1.4256	.0285	38	23.2746	.6615	.5141
199	198.5742	1.4258	.0143	39	23.9361	.6652	.5259
200	200.0000	1.4258	.0000	40	24.6013	.6690	.5376

$e = 73^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	24.6013	.6690	.5376	80	55.0844	.8759	.8698
41	25.2703	.6729	.5491	81	55.9603	.8821	.8742
42	25.9432	.6768	.5605	82	56.8424	.8883	.8783
43	26.6200	.6809	.5719	83	57.7307	.8945	.8822
44	27.3009	.6850	.5830	84	58.6252	.9008	.8859
45	27.9859	.6892	.5940	85	59.5260	.9071	.8894
46	28.6751	.6934	.6048	86	60.4331	.9134	.8926
47	29.3685	.6979	.6156	87	61.3465	.9197	.8956
48	30.0664	.7022	.6260	88	62.2662	.9261	.8984
49	30.7686	.7067	.6365	89	63.1923	.9324	.9010
50	31.4753	.7114	.6468	90	64.1247	.9388	.9034
51	32.1867	.7159	.6568	91	65.0635	.9453	.9055
52	32.9026	.7207	.6667	92	66.0088	.9516	.9073
53	33.6233	.7254	.6764	93	66.9604	.9580	.9091
54	34.3487	.7303	.6861	94	67.9184	.9645	.9106
55	35.0790	.7352	.6955	95	68.8829	.9710	.9118
56	35.8142	.7402	.7047	96	69.8539	.9774	.9128
57	36.5544	.7453	.7138	97	70.8313	.9838	.9135
58	37.2997	.7503	.7226	98	71.8151	.9903	.9142
59	38.0500	.7555	.7314	99	72.8054	.9968	.9145
60	38.8055	.7608	.7399	100	73.8022	1.0032	.9146
61	39.5663	.7660	.7482	101	74.8054	1.0097	.9145
62	40.3323	.7714	.7564	102	75.8151	1.0162	.9142
63	41.1037	.7768	.7644	103	76.8313	1.0226	.9135
64	41.8805	.7822	.7722	104	77.8539	1.0290	.9128
65	42.6627	.7877	.7798	105	78.8829	1.0355	.9118
66	43.4504	.7933	.7873	106	79.9184	1.0420	.9106
67	44.2437	.7990	.7945	107	80.9604	1.0484	.9091
68	45.0427	.8046	.8014	108	82.0088	1.0547	.9073
69	45.8473	.8103	.8083	109	83.0635	1.0612	.9055
70	46.6576	.8160	.8149	110	84.1247	1.0676	.9034
71	47.4736	.8219	.8214	111	85.1923	1.0739	.9010
72	48.2955	.8277	.8276	112	86.2662	1.0803	.8984
73	49.1232	.8336	.8336	113	87.3465	1.0866	.8956
74	49.9568	.8396	.8394	114	88.4331	1.0929	.8926
75	50.7964	.8455	.8450	115	89.5260	1.0992	.8894
76	51.6419	.8515	.8504	116	90.6252	1.1055	.8859
77	52.4934	.8576	.8556	117	91.7307	1.1117	.8822
78	53.3510	.8636	.8605	118	92.8424	1.1179	.8783
79	54.2146	.8698	.8653	119	93.9603	1.1241	.8742
80	55.0844	.8759	.8698	120	95.0844	1.1302	.8698

$e = 73^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	95.0844	1.1302	.8698	160	144.6013	1.3348	.5376
121	96.2146	1.1364	.8653	161	145.9361	1.3385	.5259
122	97.3510	1.1424	.8605	162	147.2746	1.3422	.5141
123	98.4934	1.1485	.8556	163	148.6168	1.3457	.5021
124	99.6419	1.1545	.8504	164	149.9625	1.3492	.4901
125	100.7964	1.1604	.8450	165	151.3117	1.3525	.4779
126	101.9568	1.1664	.8394	166	152.6642	1.3559	.4656
127	103.1232	1.1723	.8336	167	154.0201	1.3590	.4531
128	104.2955	1.1781	.8276	168	155.3791	1.3622	.4406
129	105.4736	1.1840	.8214	169	156.7413	1.3651	.4279
130	106.6576	1.1897	.8149	170	158.1064	1.3682	.4153
131	107.8473	1.1954	.8083	171	159.4746	1.3709	.4023
132	109.0427	1.2010	.8014	172	160.8455	1.3737	.3894
133	110.2437	1.2067	.7945	173	162.2192	1.3764	.3764
134	111.4504	1.2123	.7873	174	163.5956	1.3789	.3632
135	112.6627	1.2178	.7798	175	164.9745	1.3814	.3500
136	113.8805	1.2232	.7722	176	166.3559	1.3838	.3367
137	115.1037	1.2286	.7644	177	167.7397	1.3861	.3233
138	116.3323	1.2340	.7564	178	169.1258	1.3883	.3098
139	117.5663	1.2392	.7482	179	170.5141	1.3903	.2962
140	118.8055	1.2445	.7399	180	171.9044	1.3924	.2827
141	120.0500	1.2497	.7314	181	173.2968	1.3942	.2689
142	121.2997	1.2547	.7226	182	174.6910	1.3961	.2552
143	122.5544	1.2598	.7138	183	176.0871	1.3978	.2413
144	123.8142	1.2648	.7047	184	177.4849	1.3993	.2274
145	125.0790	1.2697	.6955	185	178.8842	1.4009	.2135
146	126.3487	1.2746	.6861	186	180.2851	1.4023	.1995
147	127.6233	1.2793	.6764	187	181.6874	1.4036	.1855
148	128.9026	1.2841	.6667	188	183.0910	1.4048	.1714
149	130.1867	1.2886	.6568	189	184.4958	1.4060	.1573
150	131.4753	1.2933	.6468	190	185.9018	1.4069	.1430
151	132.7686	1.2978	.6365	191	187.3087	1.4078	.1289
152	134.0664	1.3021	.6260	192	188.7165	1.4087	.1147
153	135.3685	1.3066	.6156	193	190.1252	1.4094	.1004
154	136.6751	1.3108	.6048	194	191.5346	1.4099	.0860
155	137.9859	1.3150	.5940	195	192.9445	1.4105	.0718
156	139.3009	1.3191	.5830	196	194.3550	1.4109	.0575
157	140.6200	1.3232	.5719	197	195.7659	1.4112	.0431
158	141.9432	1.3271	.5605	198	197.1771	1.4114	.0287
159	143.2703	1.3310	.5491	199	198.5885	1.4115	.0144
160	144.6013	1.3348	.5376	200	200.0000	1.4115	.0000

$e = 74^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.6029	.0000	40	25.1389	.6805	.5412
1	.6029	.6029	.0144	41	25.8194	.6843	.5529
2	1.2058	.6032	.0290	42	26.5037	.6882	.5644
3	1.8090	.6035	.0434	43	27.1919	.6920	.5757
4	2.4125	.6038	.0578	44	27.8839	.6960	.5869
5	3.0163	.6043	.0722	45	28.5799	.7000	.5980
6	3.6206	.6050	.0867	46	29.2799	.7042	.6090
7	4.2256	.6056	.1010	47	29.9841	.7083	.6197
8	4.8312	.6064	.1154	48	30.6924	.7127	.6304
9	5.4376	.6072	.1297	49	31.4051	.7170	.6408
10	6.0448	.6083	.1441	50	32.1221	.7214	.6511
11	6.6531	.6093	.1583	51	32.8435	.7258	.6612
12	7.2624	.6105	.1725	52	33.5693	.7304	.6713
13	7.8729	.6117	.1867	53	34.2997	.7351	.6811
14	8.4846	.6131	.2009	54	35.0348	.7397	.6907
15	9.0977	.6146	.2150	55	35.7745	.7444	.7002
16	9.7123	.6161	.2290	56	36.5189	.7493	.7096
17	10.3284	.6178	.2430	57	37.2682	.7541	.7187
18	10.9462	.6195	.2569	58	38.0223	.7591	.7276
19	11.5657	.6214	.2708	59	38.7814	.7640	.7364
20	12.1871	.6232	.2845	60	39.5454	.7691	.7450
21	12.8103	.6253	.2983	61	40.3145	.7742	.7534
22	13.4356	.6274	.3119	62	41.0887	.7794	.7616
23	14.0630	.6296	.3255	63	41.8681	.7846	.7696
24	14.6926	.6319	.3390	64	42.6527	.7898	.7775
25	15.3245	.6343	.3524	65	43.4425	.7952	.7852
26	15.9588	.6368	.3657	66	44.2377	.8005	.7926
27	16.5956	.6393	.3789	67	45.0382	.8059	.7999
28	17.2349	.6420	.3921	68	45.8441	.8115	.8070
29	17.8769	.6448	.4051	69	46.6556	.8169	.8138
30	18.5217	.6475	.4180	70	47.4725	.8225	.8205
31	19.1692	.6505	.4309	71	48.2950	.8281	.8269
32	19.8197	.6535	.4436	72	49.1231	.8337	.8332
33	20.4732	.6566	.4562	73	49.9568	.8394	.8392
34	21.1298	.6598	.4687	74	50.7962	.8452	.8451
35	21.7896	.6630	.4811	75	51.6414	.8509	.8507
36	22.4526	.6663	.4934	76	52.4923	.8567	.8561
37	23.1189	.6698	.5056	77	53.3490	.8625	.8614
38	23.7887	.6733	.5176	78	54.2115	.8684	.8664
39	24.4620	.6769	.5295	79	55.0799	.8743	.8712
40	25.1389	.6805	.5412	80	55.9542	.8803	.8758

$e = 74^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	55.9542	.8803	.8758	120	95.9542	1.1257	.8758
81	56.8345	.8862	.8801	121	97.0799	1.1316	.8712
82	57.7207	.8922	.8843	122	98.2115	1.1375	.8664
83	58.6129	.8982	.8882	123	99.3490	1.1433	.8614
84	59.5111	.9043	.8919	124	100.4923	1.1491	.8561
85	60.4154	.9103	.8954	125	101.6414	1.1548	.8507
86	61.3257	.9164	.8986	126	102.7962	1.1606	.8451
87	62.2421	.9225	.9017	127	103.9568	1.1663	.8392
88	63.1646	.9287	.9045	128	105.1231	1.1719	.8332
89	64.0933	.9348	.9071	129	106.2950	1.1775	.8269
90	65.0281	.9409	.9095	130	107.4725	1.1831	.8205
91	65.9690	.9471	.9117	131	108.6556	1.1885	.8138
92	66.9161	.9534	.9136	132	109.8441	1.1941	.8070
93	67.8695	.9595	.9152	133	111.0382	1.1995	.7999
94	68.8290	.9657	.9167	134	112.2377	1.2048	.7926
95	69.7947	.9720	.9180	135	113.4425	1.2102	.7852
96	70.7667	.9781	.9190	136	114.6527	1.2154	.7775
97	71.7448	.9845	.9199	137	115.8681	1.2206	.7696
98	72.7293	.9906	.9203	138	117.0887	1.2258	.7616
99	73.7199	.9969	.9207	139	118.3145	1.2309	.7534
100	74.7168	1.0031	.9208	140	119.5454	1.2360	.7450
101	75.7199	1.0094	.9207	141	120.7814	1.2409	.7364
102	76.7293	1.0155	.9203	142	122.0223	1.2459	.7276
103	77.7448	1.0219	.9199	143	123.2682	1.2507	.7187
104	78.7667	1.0280	.9190	144	124.5189	1.2556	.7096
105	79.7947	1.0343	.9180	145	125.7745	1.2603	.7002
106	80.8290	1.0405	.9167	146	127.0348	1.2649	.6907
107	81.8695	1.0466	.9152	147	128.2997	1.2696	.6811
108	82.9161	1.0529	.9136	148	129.5693	1.2742	.6713
109	83.9690	1.0591	.9117	149	130.8435	1.2786	.6612
110	85.0281	1.0652	.9095	150	132.1221	1.2830	.6511
111	86.0933	1.0713	.9071	151	133.4051	1.2873	.6408
112	87.1646	1.0775	.9045	152	134.6924	1.2917	.6304
113	88.2421	1.0836	.9017	153	135.9841	1.2958	.6197
114	89.3257	1.0897	.8986	154	137.2799	1.3000	.6090
115	90.4154	1.0957	.8954	155	138.5799	1.3040	.5980
116	91.5111	1.1018	.8919	156	139.8839	1.3080	.5869
117	92.6129	1.1078	.8882	157	141.1919	1.3118	.5757
118	93.7207	1.1138	.8843	158	142.5037	1.3157	.5644
119	94.8345	1.1197	.8801	159	143.8194	1.3195	.5529
120	95.9542	1.1257	.8758	160	145.1389	1.3231	.5412



$e = 74^c$				$e = 75^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	145.1389	1.3231	.5412	0	.0000	.6173	.0000
161	146.4620	1.3267	.5295	1	.6173	.6175	.0146
162	147.7887	1.3302	.5176	2	1.2348	.6176	.0291
163	149.1189	1.3337	.5056	3	1.8524	.6179	.0436
164	150.4526	1.3370	.4934	4	2.4703	.6182	.0582
165	151.7896	1.3402	.4811	5	3.0885	.6188	.0728
166	153.1298	1.3434	.4687	6	3.7073	.6193	.0872
167	154.4732	1.3465	.4562	7	4.3266	.6200	.1017
168	155.8197	1.3495	.4436	8	4.9466	.6207	.1161
169	157.1692	1.3525	.4309	9	5.5673	.6216	.1306
170	158.5217	1.3552	.4180	10	6.1889	.6225	.1450
171	159.8769	1.3580	.4051	11	6.8114	.6235	.1593
172	161.2349	1.3607	.3921	12	7.4349	.6247	.1737
173	162.5956	1.3632	.3789	13	8.0596	.6259	.1880
174	163.9588	1.3657	.3657	14	8.6855	.6272	.2022
175	165.3245	1.3681	.3524	15	9.3127	.6286	.2164
176	166.6926	1.3704	.3390	16	9.9413	.6301	.2305
177	168.0630	1.3726	.3255	17	10.5714	.6317	.2446
178	169.4356	1.3747	.3119	18	11.2031	.6334	.2586
179	170.8103	1.3768	.2983	19	11.8365	.6351	.2725
180	172.1871	1.3786	.2845	20	12.4716	.6370	.2864
181	173.5657	1.3805	.2708	21	13.1086	.6389	.3002
182	174.9462	1.3822	.2569	22	13.7475	.6410	.3140
183	176.3284	1.3839	.2430	23	14.3885	.6431	.3276
184	177.7123	1.3854	.2290	24	15.0316	.6453	.3412
185	179.0977	1.3869	.2150	25	15.6769	.6476	.3547
186	180.4846	1.3883	.2009	26	16.3245	.6500	.3681
187	181.8729	1.3895	.1867	27	16.9745	.6525	.3814
188	183.2624	1.3907	.1725	28	17.6270	.6550	.3946
189	184.6531	1.3917	.1583	29	18.2820	.6577	.4078
190	186.0448	1.3928	.1441	30	18.9397	.6604	.4208
191	187.4376	1.3936	.1297	31	19.6001	.6632	.4337
192	188.8312	1.3944	.1154	32	20.2633	.6661	.4465
193	190.2256	1.3950	.1010	33	20.9294	.6691	.4593
194	191.6206	1.3957	.0867	34	21.5985	.6722	.4718
195	193.0163	1.3962	.0722	35	22.2707	.6753	.4843
196	194.4125	1.3965	.0578	36	22.9460	.6785	.4966
197	195.8090	1.3968	.0434	37	23.6245	.6818	.5089
198	197.2058	1.3971	.0290	38	24.3063	.6852	.5210
199	198.6029	1.3971	.0144	39	24.9915	.6886	.5329
200	200.0000	1.3971	.0000	40	25.6801	.6922	.5448

$e = 75^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	25.6801	.6922	.5448	80	56.8300	.8846	.8815
41	26.3723	.6958	.5565	81	57.7146	.8904	.8859
42	27.0681	.6995	.5681	82	58.6050	.8961	.8900
43	27.7676	.7032	.5795	83	59.5011	.9019	.8940
44	28.4708	.7071	.5908	84	60.4030	.9078	.8977
45	29.1779	.7110	.6019	85	61.3108	.9135	.9012
46	29.8889	.7149	.6129	86	62.2243	.9195	.9046
47	30.6038	.7190	.6238	87	63.1438	.9253	.9076
48	31.3228	.7231	.6345	88	64.0691	.9313	.9105
49	32.0459	.7273	.6450	89	65.0004	.9372	.9130
50	32.7732	.7315	.6554	90	65.9376	.9431	.9154
51	33.5047	.7359	.6656	91	66.8807	.9490	.9176
52	34.2406	.7402	.6756	92	67.8297	.9550	.9196
53	34.9808	.7447	.6855	93	68.7847	.9610	.9213
54	35.7255	.7492	.6952	94	69.7457	.9670	.9228
55	36.4747	.7538	.7048	95	70.7127	.9730	.9240
56	37.2285	.7584	.7141	96	71.6857	.9790	.9250
57	37.9869	.7630	.7233	97	72.6647	.9849	.9258
58	38.7499	.7679	.7324	98	73.6496	.9910	.9264
59	39.5178	.7726	.7412	99	74.6406	.9970	.9268
60	40.2904	.7775	.7499	100	75.6376	1.0030	.9269
61	41.0679	.7824	.7583	101	76.6406	1.0090	.9268
62	41.8503	.7874	.7666	102	77.6496	1.0151	.9264
63	42.6377	.7925	.7747	103	78.6647	1.0210	.9258
64	43.4302	.7975	.7825	104	79.6857	1.0270	.9250
65	44.2277	.8026	.7902	105	80.7127	1.0330	.9240
66	45.0303	.8078	.7977	106	81.7457	1.0390	.9228
67	45.8381	.8130	.8051	107	82.7847	1.0450	.9213
68	46.6511	.8183	.8122	108	83.8297	1.0510	.9196
69	47.4694	.8236	.8191	109	84.8807	1.0569	.9176
70	48.2930	.8289	.8258	110	85.9376	1.0628	.9154
71	49.1219	.8344	.8323	111	87.0004	1.0687	.9130
72	49.9563	.8397	.8386	112	88.0691	1.0747	.9105
73	50.7960	.8453	.8448	113	89.1438	1.0805	.9076
74	51.6413	.8508	.8506	114	90.2243	1.0865	.9046
75	52.4921	.8563	.8563	115	91.3108	1.0922	.9012
76	53.3484	.8620	.8618	116	92.4030	1.0981	.8977
77	54.2104	.8675	.8670	117	93.5011	1.1039	.8940
78	55.0779	.8732	.8721	118	94.6050	1.1096	.8900
79	55.9511	.8789	.8769	119	95.7146	1.1154	.8859
80	56.8300	.8846	.8815	120	96.8300	1.1211	.8815

$e = 75^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	96.8300	1.1211	.8815	160	145.6801	1.3114	.5448
121	97.9511	1.1268	.8769	161	146.9915	1.3148	.5329
122	99.0779	1.1325	.8721	162	148.3063	1.3182	.5210
123	100.2104	1.1380	.8670	163	149.6245	1.3215	.5089
124	101.3484	1.1437	.8618	164	150.9460	1.3247	.4966
125	102.4921	1.1492	.8563	165	152.2707	1.3278	.4843
126	103.6413	1.1547	.8506	166	153.5985	1.3309	.4718
127	104.7960	1.1603	.8448	167	154.9294	1.3339	.4593
128	105.9563	1.1656	.8386	168	156.2633	1.3368	.4465
129	107.1219	1.1711	.8323	169	157.6001	1.3396	.4337
130	108.2930	1.1764	.8258	170	158.9397	1.3423	.4208
131	109.4694	1.1817	.8191	171	160.2820	1.3450	.4078
132	110.6511	1.1870	.8122	172	161.6270	1.3475	.3946
133	111.8381	1.1922	.8051	173	162.9745	1.3500	.3814
134	113.0303	1.1974	.7977	174	164.3245	1.3524	.3681
135	114.2277	1.2025	.7902	175	165.6769	1.3547	.3547
136	115.4302	1.2075	.7825	176	167.0316	1.3569	.3412
137	116.6377	1.2126	.7747	177	168.3885	1.3590	.3276
138	117.8503	1.2176	.7666	178	169.7475	1.3611	.3140
139	119.0679	1.2225	.7583	179	171.1086	1.3630	.3002
140	120.2904	1.2274	.7499	180	172.4716	1.3649	.2864
141	121.5178	1.2321	.7412	181	173.8365	1.3666	.2725
142	122.7499	1.2370	.7324	182	175.2031	1.3683	.2586
143	123.9869	1.2416	.7233	183	176.5714	1.3699	.2446
144	125.2285	1.2462	.7141	184	177.9413	1.3714	.2305
145	126.4747	1.2508	.7048	185	179.3127	1.3728	.2164
146	127.7255	1.2553	.6952	186	180.6855	1.3741	.2022
147	128.9808	1.2598	.6855	187	182.0596	1.3753	.1880
148	130.2406	1.2641	.6756	188	183.4349	1.3765	.1737
149	131.5047	1.2685	.6656	189	184.8114	1.3775	.1593
150	132.7732	1.2727	.6554	190	186.1889	1.3784	.1450
151	134.0459	1.2769	.6450	191	187.5673	1.3793	.1306
152	135.3228	1.2810	.6345	192	188.9466	1.3800	.1161
153	136.6038	1.2851	.6238	193	190.3266	1.3807	.1017
154	137.8889	1.2890	.6129	194	191.7073	1.3812	.0872
155	139.1779	1.2929	.6019	195	193.0885	1.3818	.0728
156	140.4708	1.2968	.5908	196	194.4703	1.3821	.0582
157	141.7676	1.3005	.5795	197	195.8524	1.3824	.0436
158	143.0681	1.3042	.5681	198	197.2348	1.3825	.0291
159	144.3723	1.3078	.5565	199	198.6173	1.3827	.0146
160	145.6801	1.3114	.5448	200	200.0000	1.3827	.0000

$e = 76^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.6319	.0000	40	26.2249	.7039	.5482
1	.6319	.6320	.0146	41	26.9288	.7074	.5600
2	1.2639	.6321	.0293	42	27.6362	.7109	.5716
3	1.8960	.6325	.0440	43	28.3471	.7145	.5831
4	2.5285	.6328	.0585	44	29.0616	.7182	.5945
5	3.1613	.6332	.0731	45	29.7798	.7220	.6057
6	3.7945	.6338	.0878	46	30.5018	.7258	.6168
7	4.4283	.6344	.1024	47	31.2276	.7297	.6277
8	5.0627	.6352	.1169	48	31.9573	.7336	.6384
9	5.6979	.6360	.1314	49	32.6909	.7377	.6490
10	6.3339	.6368	.1459	50	33.4286	.7417	.6594
11	6.9707	.6379	.1604	51	34.1703	.7459	.6698
12	7.6086	.6390	.1748	52	34.9162	.7501	.6799
13	8.2476	.6401	.1891	53	35.6663	.7544	.6898
14	8.8877	.6414	.2034	54	36.4207	.7588	.6996
15	9.5291	.6427	.2177	55	37.1795	.7631	.7092
16	10.1718	.6442	.2320	56	37.9426	.7676	.7186
17	10.8160	.6457	.2461	57	38.7102	.7721	.7278
18	11.4617	.6473	.2602	58	39.4823	.7767	.7369
19	12.1090	.6490	.2742	59	40.2590	.7813	.7458
20	12.7580	.6508	.2882	60	41.0403	.7859	.7545
21	13.4088	.6527	.3021	61	41.8262	.7907	.7631
22	14.0615	.6546	.3159	62	42.6169	.7955	.7714
23	14.7161	.6567	.3297	63	43.4124	.8003	.7795
24	15.3728	.6588	.3433	64	44.2127	.8052	.7875
25	16.0316	.6610	.3569	65	45.0179	.8101	.7952
26	16.6926	.6633	.3704	66	45.8280	.8152	.8028
27	17.3559	.6657	.3838	67	46.6432	.8201	.8101
28	18.0216	.6682	.3971	68	47.4633	.8252	.8173
29	18.6898	.6707	.4103	69	48.2885	.8303	.8242
30	19.3605	.6733	.4234	70	49.1188	.8354	.8310
31	20.0338	.6760	.4364	71	49.9542	.8407	.8376
32	20.7098	.6789	.4493	72	50.7949	.8459	.8439
33	21.3887	.6816	.4620	73	51.6408	.8511	.8500
34	22.0703	.6847	.4748	74	52.4919	.8565	.8560
35	22.7550	.6876	.4873	75	53.3484	.8618	.8616
36	23.4426	.6908	.4997	76	54.2102	.8672	.8671
37	24.1334	.6939	.5120	77	55.0774	.8726	.8724
38	24.8273	.6971	.5242	78	55.9500	.8780	.8774
39	25.5244	.7005	.5363	79	56.8280	.8835	.8823
40	26.2249	.7039	.5482	80	57.7115	.8890	.8870

$e = 76^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	57.7115	.8890	.8870	120	97.7115	1.1165	.8870
81	58.6005	.8945	.8914	121	98.8280	1.1220	.8823
82	59.4950	.9001	.8956	122	99.9500	1.1274	.8774
83	60.3951	.9056	.8996	123	101.0774	1.1328	.8724
84	61.3007	.9113	.9034	124	102.2102	1.1382	.8671
85	62.2120	.9169	.9068	125	103.3484	1.1435	.8616
86	63.1289	.9225	.9101	126	104.4919	1.1489	.8560
87	64.0514	.9282	.9132	127	105.6408	1.1541	.8500
88	64.9796	.9338	.9161	128	106.7949	1.1593	.8439
89	65.9134	.9396	.9188	129	107.9542	1.1646	.8376
90	66.8530	.9453	.9211	130	109.1188	1.1697	.8310
91	67.7983	.9510	.9233	131	110.2885	1.1748	.8242
92	68.7493	.9567	.9252	132	111.4633	1.1799	.8173
93	69.7060	.9625	.9270	133	112.6432	1.1848	.8101
94	70.6685	.9682	.9285	134	113.8280	1.1899	.8028
95	71.6367	.9740	.9298	135	115.0179	1.1948	.7952
96	72.6107	.9798	.9308	136	116.2127	1.1997	.7875
97	73.5905	.9855	.9316	137	117.4124	1.2045	.7795
98	74.5760	.9914	.9322	138	118.6169	1.2093	.7714
99	75.5674	.9971	.9325	139	119.8262	1.2141	.7631
100	76.5645	1.0029	.9326	140	121.0403	1.2187	.7545
101	77.5674	1.0086	.9325	141	122.2590	1.2233	.7458
102	78.5760	1.0145	.9322	142	123.4823	1.2279	.7369
103	79.5905	1.0202	.9316	143	124.7102	1.2324	.7278
104	80.6107	1.0260	.9308	144	125.9426	1.2369	.7186
105	81.6367	1.0318	.9298	145	127.1795	1.2412	.7092
106	82.6685	1.0375	.9285	146	128.4207	1.2456	.6996
107	83.7060	1.0433	.9270	147	129.6663	1.2499	.6898
108	84.7493	1.0490	.9252	148	130.9162	1.2541	.6799
109	85.7983	1.0547	.9233	149	132.1703	1.2583	.6698
110	86.8530	1.0604	.9211	150	133.4286	1.2623	.6594
111	87.9134	1.0662	.9188	151	134.6909	1.2664	.6490
112	88.9796	1.0718	.9161	152	135.9573	1.2703	.6384
113	90.0514	1.0775	.9132	153	137.2276	1.2742	.6277
114	91.1289	1.0831	.9101	154	138.5018	1.2780	.6168
115	92.2120	1.0887	.9068	155	139.7798	1.2818	.6057
116	93.3007	1.0944	.9034	156	141.0616	1.2855	.5945
117	94.3951	1.0999	.8996	157	142.3471	1.2891	.5831
118	95.4950	1.1055	.8956	158	143.6362	1.2926	.5716
119	96.6005	1.1110	.8914	159	144.9288	1.2961	.5600
120	97.7115	1.1165	.8870	160	146.2249	1.2995	.5482

$e = 76^c$				$e = 77^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	146.2249	1.2995	.5482	0	.0000	.6465	.0000
161	147.5244	1.3029	.5363	1	.6465	.6467	.0148
162	148.8273	1.3061	.5242	2	1.2932	.6468	.0294
163	150.1334	1.3092	.5120	3	1.9400	.6470	.0442
164	151.4426	1.3124	.4997	4	2.5870	.6474	.0589
165	152.7550	1.3153	.4873	5	3.2344	.6479	.0737
166	154.0703	1.3184	.4748	6	3.8823	.6484	.0883
167	155.3887	1.3211	.4620	7	4.5307	.6489	.1029
168	156.7098	1.3240	.4493	8	5.1796	.6497	.1176
169	158.0338	1.3267	.4364	9	5.8293	.6505	.1322
170	159.3605	1.3293	.4234	10	6.4798	.6513	.1467
171	160.6898	1.3318	.4103	11	7.1311	.6523	.1613
172	162.0216	1.3343	.3971	12	7.7834	.6533	.1758
173	163.3559	1.3367	.3838	13	8.4367	.6544	.1902
174	164.6926	1.3390	.3704	14	9.0911	.6557	.2047
175	166.0316	1.3412	.3569	15	9.7468	.6570	.2190
176	167.3728	1.3433	.3433	16	10.4038	.6583	.2333
177	168.7161	1.3454	.3297	17	11.0621	.6598	.2476
178	170.0615	1.3473	.3159	18	11.7219	.6613	.2617
179	171.4088	1.3492	.3021	19	12.3832	.6630	.2759
180	172.7580	1.3510	.2882	20	13.0462	.6647	.2899
181	174.1090	1.3527	.2742	21	13.7109	.6665	.3039
182	175.4617	1.3543	.2602	22	14.3774	.6684	.3178
183	176.8160	1.3558	.2461	23	15.0458	.6703	.3316
184	178.1718	1.3573	.2320	24	15.7161	.6724	.3454
185	179.5291	1.3586	.2177	25	16.3885	.6745	.3590
186	180.8877	1.3599	.2034	26	17.0630	.6767	.3726
187	182.2476	1.3610	.1891	27	17.7397	.6790	.3861
188	183.6086	1.3621	.1748	28	18.4187	.6814	.3995
189	184.9707	1.3632	.1604	29	19.1001	.6838	.4127
190	186.3339	1.3640	.1459	30	19.7839	.6863	.4259
191	187.6979	1.3648	.1314	31	20.4702	.6889	.4390
192	189.0627	1.3656	.1169	32	21.1591	.6916	.4520
193	190.4283	1.3662	.1024	33	21.8507	.6944	.4649
194	191.7945	1.3668	.0878	34	22.5451	.6972	.4776
195	193.1613	1.3672	.0731	35	23.2423	.7000	.4902
196	194.5285	1.3675	.0585	36	23.9423	.7031	.5027
197	195.8960	1.3679	.0440	37	24.6454	.7061	.5151
198	197.2639	1.3680	.0293	38	25.3515	.7092	.5273
199	198.6319	1.3681	.0146	39	26.0607	.7124	.5395
200	200.0000	1.3681	.0000	40	26.7731	.7157	.5515

$e = 77^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	26.7731	.7157	.5515	80	58.5985	.8934	.8922
41	27.4888	.7190	.5633	81	59.4919	.8987	.8967
42	28.2078	.7224	.5750	82	60.3906	.9041	.9009
43	28.9302	.7259	.5866	83	61.2947	.9094	.9049
44	29.6561	.7294	.5980	84	62.2041	.9147	.9087
45	30.3855	.7331	.6093	85	63.1188	.9202	.9123
46	31.1186	.7367	.6204	86	64.0390	.9256	.9156
47	31.8553	.7404	.6314	87	64.9646	.9311	.9187
48	32.5957	.7442	.6422	88	65.8957	.9365	.9215
49	33.3399	.7481	.6529	89	66.8322	.9419	.9242
50	34.0880	.7521	.6634	90	67.7741	.9475	.9267
51	34.8401	.7560	.6737	91	68.7216	.9529	.9288
52	35.5961	.7600	.6839	92	69.6745	.9585	.9308
53	36.3561	.7642	.6940	93	70.6330	.9640	.9325
54	37.1203	.7684	.7038	94	71.5970	.9695	.9340
55	37.8887	.7725	.7134	95	72.5665	.9750	.9353
56	38.6612	.7768	.7229	96	73.5415	.9806	.9363
57	39.4380	.7812	.7322	97	74.5221	.9861	.9371
58	40.2192	.7856	.7413	98	75.5082	.9917	.9377
59	41.0048	.7900	.7502	99	76.4999	.9972	.9380
60	41.7948	.7945	.7590	100	77.4971	1.0028	.9382
61	42.5893	.7990	.7675	101	78.4999	1.0083	.9380
62	43.3883	.8036	.7759	102	79.5082	1.0139	.9377
63	44.1919	.8083	.7841	103	80.5221	1.0194	.9371
64	45.0002	.8129	.7921	104	81.5415	1.0250	.9363
65	45.8131	.8177	.7999	105	82.5665	1.0305	.9353
66	46.6308	.8225	.8075	106	83.5970	1.0360	.9340
67	47.4533	.8273	.8149	107	84.6330	1.0415	.9325
68	48.2806	.8321	.8221	108	85.6745	1.0471	.9308
69	49.1127	.8371	.8291	109	86.7216	1.0525	.9288
70	49.9498	.8420	.8359	110	87.7741	1.0581	.9267
71	50.7918	.8470	.8425	111	88.8322	1.0635	.9242
72	51.6388	.8520	.8489	112	89.8957	1.0689	.9215
73	52.4908	.8571	.8550	113	90.9646	1.0744	.9187
74	53.3479	.8621	.8610	114	92.0390	1.0798	.9156
75	54.2100	.8673	.8668	115	93.1188	1.0853	.9123
76	55.0773	.8725	.8723	116	94.2041	1.0906	.9087
77	55.9498	.8776	.8776	117	95.2947	1.0959	.9049
78	56.8274	.8829	.8828	118	96.3906	1.1013	.9009
79	57.7103	.8882	.8876	119	97.4919	1.1066	.8967
80	58.5985	.8934	.8922	120	98.5985	1.1118	.8922

$e = 77^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	98.5985	1.1118	.8922	160	146.7731	1.2876	.5515
121	99.7103	1.1171	.8876	161	148.0607	1.2908	.5395
122	100.8274	1.1224	.8828	162	149.3515	1.2939	.5273
123	101.9498	1.1275	.8776	163	150.6454	1.2969	.5151
124	103.0773	1.1327	.8723	164	151.9423	1.3000	.5027
125	104.2100	1.1379	.8668	165	153.2423	1.3028	.4902
126	105.3479	1.1429	.8610	166	154.5451	1.3056	.4776
127	106.4908	1.1480	.8550	167	155.8507	1.3084	.4649
128	107.6388	1.1530	.8489	168	157.1591	1.3111	.4520
129	108.7918	1.1580	.8425	169	158.4702	1.3137	.4390
130	109.9498	1.1629	.8359	170	159.7839	1.3162	.4259
131	111.1127	1.1679	.8291	171	161.1001	1.3186	.4127
132	112.2806	1.1727	.8221	172	162.4187	1.3210	.3995
133	113.4533	1.1775	.8149	173	163.7397	1.3233	.3861
134	114.6308	1.1823	.8075	174	165.0630	1.3255	.3726
135	115.8131	1.1871	.7999	175	166.3885	1.3276	.3590
136	117.0002	1.1917	.7921	176	167.7161	1.3297	.3454
137	118.1919	1.1964	.7841	177	169.0458	1.3316	.3316
138	119.3883	1.2010	.7759	178	170.3774	1.3335	.3178
139	120.5893	1.2055	.7675	179	171.7109	1.3353	.3039
140	121.7948	1.2100	.7590	180	173.0462	1.3370	.2899
141	123.0048	1.2144	.7502	181	174.3832	1.3387	.2759
142	124.2192	1.2188	.7413	182	175.7219	1.3402	.2617
143	125.4380	1.2232	.7322	183	177.0621	1.3417	.2476
144	126.6612	1.2275	.7229	184	178.4038	1.3430	.2333
145	127.8887	1.2316	.7134	185	179.7468	1.3443	.2190
146	129.1203	1.2358	.7038	186	181.0911	1.3456	.2047
147	130.3561	1.2400	.6940	187	182.4367	1.3467	.1902
148	131.5961	1.2440	.6839	188	183.7834	1.3477	.1758
149	132.8401	1.2479	.6737	189	185.1311	1.3487	.1613
150	134.0880	1.2519	.6634	190	186.4798	1.3495	.1467
151	135.3399	1.2558	.6529	191	187.8293	1.3503	.1322
152	136.5957	1.2596	.6422	192	189.1796	1.3511	.1176
153	137.8553	1.2633	.6314	193	190.5307	1.3516	.1029
154	139.1186	1.2669	.6204	194	191.8823	1.3521	.0883
155	140.3855	1.2706	.6093	195	193.2344	1.3526	.0737
156	141.6561	1.2741	.5980	196	194.5870	1.3530	.0589
157	142.9302	1.2776	.5866	197	195.9400	1.3532	.0442
158	144.2078	1.2810	.5750	198	197.2932	1.3533	.0294
159	145.4888	1.2843	.5633	199	198.6465	1.3535	.0148
160	146.7731	1.2876	.5515	200	200.0000	1.3535	.0000



$e = 78^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.6613	.0000	40	27.3246	.7275	.5545
1	.6613	.6613	.0148	41	28.0521	.7307	.5665
2	1.3226	.6616	.0297	42	28.7828	.7340	.5783
3	1.9842	.6617	.0444	43	29.5168	.7373	.5899
4	2.6459	.6622	.0593	44	30.2541	.7407	.6014
5	3.3081	.6625	.0740	45	30.9948	.7442	.6128
6	3.9706	.6630	.0888	46	31.7390	.7477	.6239
7	4.6336	.6636	.1035	47	32.4867	.7512	.6350
8	5.2972	.6643	.1183	48	33.2379	.7549	.6459
9	5.9615	.6650	.1329	49	33.9928	.7586	.6566
10	6.6265	.6659	.1476	50	34.7514	.7624	.6672
11	7.2924	.6668	.1622	51	35.5138	.7662	.6776
12	7.9592	.6677	.1768	52	36.2800	.7701	.6878
13	8.6269	.6689	.1914	53	37.0501	.7740	.6978
14	9.2958	.6700	.2058	54	37.8241	.7780	.7077
15	9.9658	.6713	.2203	55	38.6021	.7820	.7174
16	10.6371	.6726	.2346	56	39.3841	.7861	.7270
17	11.3097	.6739	.2489	57	40.1702	.7903	.7364
18	11.9836	.6755	.2633	58	40.9605	.7945	.7455
19	12.6591	.6770	.2774	59	41.7550	.7988	.7545
20	13.3361	.6787	.2916	60	42.5538	.8030	.7633
21	14.0148	.6804	.3056	61	43.3568	.8074	.7720
22	14.6952	.6822	.3196	62	44.1642	.8118	.7804
23	15.3774	.6841	.3335	63	44.9760	.8163	.7886
24	16.0615	.6860	.3473	64	45.7923	.8207	.7966
25	16.7475	.6881	.3611	65	46.6130	.8253	.8045
26	17.4356	.6902	.3747	66	47.4383	.8299	.8121
27	18.1258	.6924	.3883	67	48.2682	.8345	.8196
28	18.8182	.6946	.4017	68	49.1027	.8391	.8268
29	19.5128	.6970	.4151	69	49.9418	.8439	.8339
30	20.2098	.6994	.4284	70	50.7857	.8486	.8407
31	20.9092	.7019	.4415	71	51.6343	.8534	.8473
32	21.6111	.7045	.4545	72	52.4877	.8581	.8537
33	22.3156	.7071	.4674	73	53.3458	.8631	.8599
34	23.0227	.7098	.4802	74	54.2089	.8679	.8659
35	23.7325	.7125	.4929	75	55.0768	.8728	.8717
36	24.4450	.7155	.5056	76	55.9496	.8778	.8773
37	25.1605	.7183	.5180	77	56.8274	.8828	.8826
38	25.8788	.7214	.5304	78	57.7102	.8877	.8877
39	26.6002	.7244	.5425	79	58.5979	.8928	.8927
40	27.3246	.7275	.5545	80	59.4907	.8979	.8974

$e = 78^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	59.4907	.8979	.8974	120	99.4907	1.1072	.8974
81	60.3886	.9029	.9018	121	100.5979	1.1123	.8927
82	61.2915	.9081	.9061	122	101.7102	1.1172	.8877
83	62.1996	.9132	.9100	123	102.8274	1.1222	.8826
84	63.1128	.9183	.9138	124	103.9496	1.1272	.8773
85	64.0311	.9235	.9174	125	105.0768	1.1321	.8717
86	64.9546	.9287	.9208	126	106.2089	1.1369	.8659
87	65.8833	.9339	.9239	127	107.3458	1.1419	.8599
88	66.8172	.9392	.9268	128	108.4877	1.1466	.8537
89	67.7564	.9444	.9294	129	109.6343	1.1514	.8473
90	68.7008	.9496	.9319	130	110.7857	1.1561	.8407
91	69.6504	.9549	.9341	131	111.9418	1.1609	.8339
92	70.6053	.9602	.9361	132	113.1027	1.1655	.8268
93	71.5655	.9655	.9378	133	114.2682	1.1701	.8196
94	72.5310	.9708	.9393	134	115.4383	1.1747	.8121
95	73.5018	.9760	.9405	135	116.6130	1.1793	.8045
96	74.4778	.9814	.9417	136	117.7923	1.1837	.7966
97	75.4592	.9867	.9425	137	118.9760	1.1882	.7886
98	76.4459	.9920	.9431	138	120.1642	1.1926	.7804
99	77.4379	.9974	.9434	139	121.3568	1.1970	.7720
100	78.4353	1.0026	.9435	140	122.5538	1.2012	.7633
101	79.4379	1.0080	.9434	141	123.7550	1.2055	.7545
102	80.4459	1.0133	.9431	142	124.9605	1.2097	.7455
103	81.4592	1.0186	.9425	143	126.1702	1.2139	.7364
104	82.4778	1.0240	.9417	144	127.3841	1.2180	.7270
105	83.5018	1.0292	.9405	145	128.6021	1.2220	.7174
106	84.5310	1.0345	.9393	146	129.8241	1.2260	.7077
107	85.5655	1.0398	.9378	147	131.0501	1.2299	.6978
108	86.6053	1.0451	.9361	148	132.2800	1.2338	.6878
109	87.6504	1.0504	.9341	149	133.5138	1.2376	.6776
110	88.7008	1.0556	.9319	150	134.7514	1.2414	.6672
111	89.7564	1.0608	.9294	151	135.9928	1.2451	.6566
112	90.8172	1.0661	.9268	152	137.2379	1.2488	.6459
113	91.8833	1.0713	.9239	153	138.4867	1.2523	.6350
114	92.9546	1.0765	.9208	154	139.7390	1.2558	.6239
115	94.0311	1.0817	.9174	155	140.9948	1.2593	.6128
116	95.1128	1.0868	.9138	156	142.2541	1.2627	.6014
117	96.1996	1.0919	.9100	157	143.5168	1.2660	.5899
118	97.2915	1.0971	.9061	158	144.7828	1.2693	.5783
119	98.3886	1.1021	.9018	159	146.0521	1.2725	.5665
120	99.4907	1.1072	.8974	160	147.3246	1.2756	.5545

$e = 78^c$				$e = 79^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	147.3246	1.2756	.5545	0	.0000	.6761	.0000
161	148.6002	1.2786	.5425	1	.6761	.6762	.0149
162	149.8788	1.2817	.5304	2	1.3523	.6763	.0298
163	151.1605	1.2845	.5180	3	2.0286	.6766	.0447
164	152.4450	1.2875	.5056	4	2.7052	.6769	.0595
165	153.7325	1.2902	.4929	5	3.3821	.6773	.0744
166	155.0227	1.2929	.4802	6	4.0594	.6777	.0892
167	156.3156	1.2955	.4674	7	4.7371	.6784	.1041
168	157.6111	1.2981	.4545	8	5.4155	.6789	.1189
169	158.9092	1.3006	.4415	9	6.0944	.6797	.1337
170	160.2098	1.3030	.4284	10	6.7741	.6805	.1484
171	161.5128	1.3054	.4151	11	7.4546	.6814	.1631
172	162.8182	1.3076	.4017	12	8.1360	.6823	.1777
173	164.1258	1.3098	.3883	13	8.8183	.6833	.1923
174	165.4356	1.3119	.3747	14	9.5016	.6845	.2069
175	166.7475	1.3140	.3611	15	10.1861	.6856	.2214
176	168.0615	1.3159	.3473	16	10.8717	.6869	.2359
177	169.3774	1.3178	.3335	17	11.5586	.6883	.2503
178	170.6952	1.3196	.3196	18	12.2469	.6896	.2646
179	172.0148	1.3213	.3056	19	12.9365	.6912	.2790
180	173.3361	1.3230	.2916	20	13.6277	.6927	.2931
181	174.6591	1.3245	.2774	21	14.3204	.6944	.3073
182	175.9836	1.3261	.2633	22	15.0148	.6961	.3213
183	177.3097	1.3274	.2489	23	15.7109	.6979	.3353
184	178.6371	1.3287	.2346	24	16.4088	.6998	.3492
185	179.9658	1.3300	.2203	25	17.1086	.7017	.3630
186	181.2958	1.3311	.2058	26	17.8103	.7038	.3768
187	182.6269	1.3323	.1914	27	18.5141	.7058	.3903
188	183.9592	1.3332	.1768	28	19.2199	.7080	.4039
189	185.2924	1.3341	.1622	29	19.9279	.7103	.4173
190	186.6265	1.3350	.1476	30	20.6382	.7125	.4306
191	187.9615	1.3357	.1329	31	21.3507	.7149	.4439
192	189.2972	1.3364	.1183	32	22.0656	.7174	.4570
193	190.6336	1.3370	.1035	33	22.7830	.7199	.4700
194	191.9706	1.3375	.0888	34	23.5029	.7225	.4829
195	193.3081	1.3378	.0740	35	24.2254	.7252	.4957
196	194.6459	1.3383	.0593	36	24.9506	.7279	.5083
197	195.9842	1.3384	.0444	37	25.6785	.7307	.5208
198	197.3226	1.3387	.0297	38	26.4092	.7335	.5331
199	198.6613	1.3387	.0148	39	27.1427	.7364	.5454
200	200.0000	1.3387	.0000	40	27.8791	.7395	.5576

$e = 79^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	27.8791	.7395	.5576	80	60.3881	.9023	.9021
41	28.6186	.7425	.5696	81	61.2904	.9072	.9066
42	29.3611	.7456	.5814	82	62.1976	.9120	.9109
43	30.1067	.7488	.5931	83	63.1096	.9170	.9150
44	30.8555	.7521	.6047	84	64.0266	.9219	.9188
45	31.6076	.7553	.6160	85	64.9485	.9269	.9224
46	32.3629	.7588	.6274	86	65.8754	.9318	.9257
47	33.1217	.7621	.6384	87	66.8072	.9368	.9289
48	33.8838	.7656	.6494	88	67.7440	.9418	.9318
49	34.6494	.7692	.6602	89	68.6858	.9469	.9345
50	35.4186	.7728	.6707	90	69.6327	.9518	.9369
51	36.1914	.7764	.6812	91	70.5845	.9569	.9391
52	36.9678	.7801	.6915	92	71.5414	.9619	.9411
53	37.7479	.7839	.7016	93	72.5033	.9670	.9429
54	38.5318	.7877	.7115	94	73.4703	.9720	.9444
55	39.3195	.7916	.7213	95	74.4423	.9772	.9457
56	40.1111	.7955	.7309	96	75.4195	.9822	.9467
57	40.9066	.7994	.7403	97	76.4017	.9873	.9475
58	41.7060	.8035	.7496	98	77.3890	.9923	.9481
59	42.5095	.8076	.7586	99	78.3813	.9975	.9485
60	43.3171	.8117	.7674	100	79.3788	1.0025	.9486
61	44.1288	.8158	.7760	101	80.3813	1.0077	.9485
62	44.9446	.8200	.7845	102	81.3890	1.0127	.9481
63	45.7646	.8243	.7929	103	82.4017	1.0178	.9475
64	46.5889	.8286	.8009	104	83.4195	1.0228	.9467
65	47.4175	.8329	.8088	105	84.4423	1.0280	.9457
66	48.2504	.8374	.8165	106	85.4703	1.0330	.9444
67	49.0878	.8417	.8239	107	86.5033	1.0381	.9429
68	49.9295	.8462	.8312	108	87.5414	1.0431	.9411
69	50.7757	.8507	.8383	109	88.5845	1.0482	.9391
70	51.6264	.8552	.8452	110	89.6327	1.0531	.9369
71	52.4816	.8598	.8518	111	90.6858	1.0582	.9345
72	53.3414	.8643	.8583	112	91.7440	1.0632	.9318
73	54.2057	.8691	.8646	113	92.8072	1.0682	.9289
74	55.0748	.8737	.8706	114	93.8754	1.0731	.9257
75	55.9485	.8784	.8764	115	94.9485	1.0781	.9224
76	56.8269	.8831	.8819	116	96.0266	1.0830	.9188
77	57.7100	.8879	.8874	117	97.1096	1.0880	.9150
78	58.5979	.8927	.8925	118	98.1976	1.0928	.9109
79	59.4906	.8975	.8974	119	99.2904	1.0977	.9066
80	60.3881	.9023	.9021	120	100.3881	1.1025	.9021

$e = 79^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	100.3881	1.1025	.9021	160	147.8791	1.2636	.5576
121	101.4906	1.1073	.8974	161	149.1427	1.2665	.5454
122	102.5979	1.1121	.8925	162	150.4092	1.2693	.5331
123	103.7100	1.1169	.8874	163	151.6785	1.2721	.5208
124	104.8269	1.1216	.8819	164	152.9506	1.2748	.5083
125	105.9485	1.1263	.8764	165	154.2254	1.2775	.4957
126	107.0748	1.1309	.8706	166	155.5029	1.2801	.4829
127	108.2057	1.1357	.8646	167	156.7830	1.2826	.4700
128	109.3414	1.1402	.8583	168	158.0656	1.2851	.4570
129	110.4816	1.1448	.8518	169	159.3507	1.2875	.4439
130	111.6264	1.1493	.8452	170	160.6382	1.2897	.4306
131	112.7757	1.1538	.8383	171	161.9279	1.2920	.4173
132	113.9295	1.1583	.8312	172	163.2199	1.2942	.4039
133	115.0878	1.1626	.8239	173	164.5141	1.2962	.3903
134	116.2504	1.1671	.8165	174	165.8103	1.2983	.3768
135	117.4175	1.1714	.8088	175	167.1086	1.3002	.3630
136	118.5889	1.1757	.8009	176	168.4088	1.3021	.3492
137	119.7646	1.1800	.7929	177	169.7109	1.3039	.3353
138	120.9446	1.1842	.7845	178	171.0148	1.3056	.3213
139	122.1288	1.1883	.7760	179	172.3204	1.3073	.3073
140	123.3171	1.1924	.7674	180	173.6277	1.3088	.2931
141	124.5095	1.1965	.7586	181	174.9365	1.3104	.2790
142	125.7060	1.2006	.7496	182	176.2469	1.3117	.2646
143	126.9066	1.2045	.7403	183	177.5586	1.3131	.2503
144	128.1111	1.2084	.7309	184	178.8717	1.3144	.2359
145	129.3195	1.2123	.7213	185	180.1861	1.3155	.2214
146	130.5318	1.2161	.7115	186	181.5016	1.3167	.2069
147	131.7479	1.2199	.7016	187	182.8183	1.3177	.1923
148	132.9678	1.2236	.6915	188	184.1360	1.3186	.1777
149	134.1914	1.2272	.6812	189	185.4546	1.3195	.1631
150	135.4186	1.2308	.6707	190	186.7741	1.3203	.1484
151	136.6494	1.2344	.6602	191	188.0944	1.3211	.1337
152	137.8838	1.2379	.6494	192	189.4155	1.3216	.1189
153	139.1217	1.2412	.6384	193	190.7371	1.3223	.1041
154	140.3629	1.2447	.6274	194	192.0594	1.3227	.0892
155	141.6076	1.2479	.6160	195	193.3821	1.3231	.0744
156	142.8555	1.2512	.6047	196	194.7052	1.3234	.0595
157	144.1067	1.2544	.5931	197	196.0286	1.3237	.0447
158	145.3611	1.2575	.5814	198	197.3523	1.3238	.0298
159	146.6186	1.2605	.5696	199	198.6761	1.3239	.0149
160	147.8791	1.2636	.5576	200	200.0000	1.3239	.0000

$e = 80^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.6910	.0000	40	28.4367	.7515	.5604
1	.6910	.6911	.0150	41	29.1882	.7543	.5724
2	1.3821	.6912	.0299	42	29.9425	.7573	.5844
3	2.0733	.6914	.0449	43	30.6998	.7604	.5962
4	2.7647	.6918	.0599	44	31.4602	.7634	.6077
5	3.4565	.6921	.0748	45	32.2236	.7667	.6193
6	4.1486	.6926	.0898	46	32.9903	.7698	.6305
7	4.8412	.6932	.1047	47	33.7601	.7731	.6417
8	5.5344	.6937	.1195	48	34.5332	.7764	.6526
9	6.2281	.6944	.1343	49	35.3096	.7797	.6635
10	6.9225	.6952	.1492	50	36.0893	.7833	.6742
11	7.6177	.6960	.1639	51	36.8726	.7867	.6847
12	8.3137	.6969	.1787	52	37.6593	.7902	.6950
13	9.0106	.6979	.1934	53	38.4495	.7938	.7052
14	9.7085	.6990	.2080	54	39.2433	.7975	.7152
15	10.4075	.7001	.2226	55	40.0408	.8012	.7250
16	11.1076	.7013	.2371	56	40.8420	.8049	.7346
17	11.8089	.7026	.2516	57	41.6469	.8087	.7441
18	12.5115	.7040	.2660	58	42.4556	.8125	.7533
19	13.2155	.7053	.2803	59	43.2681	.8164	.7625
20	13.9208	.7069	.2947	60	44.0845	.8203	.7714
21	14.6277	.7084	.3088	61	44.9048	.8243	.7801
22	15.3361	.7101	.3230	62	45.7291	.8284	.7886
23	16.0462	.7118	.3370	63	46.5575	.8323	.7969
24	16.7580	.7136	.3510	64	47.3898	.8365	.8051
25	17.4716	.7155	.3649	65	48.2263	.8406	.8130
26	18.1871	.7173	.3786	66	49.0669	.8448	.8207
27	18.9044	.7194	.3924	67	49.9117	.8490	.8282
28	19.6238	.7214	.4060	68	50.7607	.8533	.8356
29	20.3452	.7236	.4195	69	51.6140	.8576	.8426
30	21.0688	.7258	.4329	70	52.4716	.8618	.8495
31	21.7946	.7280	.4461	71	53.3334	.8663	.8563
32	22.5226	.7304	.4594	72	54.1997	.8706	.8627
33	23.2530	.7328	.4724	73	55.0703	.8751	.8690
34	23.9858	.7353	.4854	74	55.9454	.8795	.8750
35	24.7211	.7378	.4982	75	56.8249	.8839	.8808
36	25.4589	.7404	.5109	76	57.7088	.8886	.8865
37	26.1993	.7430	.5234	77	58.5974	.8930	.8918
38	26.9423	.7458	.5360	78	59.4904	.8976	.8971
39	27.6881	.7486	.5483	79	60.3880	.9022	.9020
40	28.4367	.7515	.5604	80	61.2902	.9068	.9068

$e = 80^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	61.2902	.9068	.9068	120	101.2902	1.0978	.9068
81	62.1970	.9115	.9113	121	102.3880	1.1024	.9020
82	63.1085	.9161	.9156	122	103.4904	1.1070	.8971
83	64.0246	.9208	.9197	123	104.5974	1.1114	.8918
84	64.9454	.9255	.9235	124	105.7088	1.1161	.8865
85	65.8709	.9302	.9271	125	106.8249	1.1205	.8808
86	66.8011	.9350	.9305	126	107.9454	1.1249	.8750
87	67.7361	.9397	.9336	127	109.0703	1.1294	.8690
88	68.6758	.9445	.9366	128	110.1997	1.1337	.8627
89	69.6203	.9493	.9393	129	111.3334	1.1382	.8563
90	70.5696	.9540	.9417	130	112.4716	1.1424	.8495
91	71.5236	.9589	.9440	131	113.6140	1.1467	.8426
92	72.4825	.9637	.9459	132	114.7607	1.1510	.8356
93	73.4462	.9685	.9477	133	115.9117	1.1552	.8282
94	74.4147	.9733	.9492	134	117.0669	1.1594	.8207
95	75.3880	.9782	.9505	135	118.2263	1.1635	.8130
96	76.3662	.9830	.9515	136	119.3898	1.1677	.8051
97	77.3492	.9879	.9524	137	120.5575	1.1716	.7969
98	78.3371	.9927	.9529	138	121.7291	1.1757	.7886
99	79.3298	.9976	.9533	139	122.9048	1.1797	.7801
100	80.3274	1.0024	.9534	140	124.0845	1.1836	.7714
101	81.3298	1.0073	.9533	141	125.2681	1.1875	.7625
102	82.3371	1.0121	.9529	142	126.4556	1.1913	.7533
103	83.3492	1.0170	.9524	143	127.6469	1.1951	.7441
104	84.3662	1.0218	.9515	144	128.8420	1.1988	.7346
105	85.3880	1.0267	.9505	145	130.0408	1.2025	.7250
106	86.4147	1.0315	.9492	146	131.2433	1.2062	.7152
107	87.4462	1.0363	.9477	147	132.4495	1.2098	.7052
108	88.4825	1.0411	.9459	148	133.6593	1.2133	.6950
109	89.5236	1.0460	.9440	149	134.8726	1.2167	.6847
110	90.5696	1.0507	.9417	150	136.0893	1.2203	.6742
111	91.6203	1.0555	.9393	151	137.3096	1.2236	.6635
112	92.6758	1.0603	.9366	152	138.5332	1.2269	.6526
113	93.7361	1.0650	.9336	153	139.7601	1.2302	.6417
114	94.8011	1.0698	.9305	154	140.9903	1.2333	.6305
115	95.8709	1.0745	.9271	155	142.2236	1.2366	.6193
116	96.9454	1.0792	.9235	156	143.4602	1.2396	.6077
117	98.0246	1.0839	.9197	157	144.6998	1.2427	.5962
118	99.1085	1.0885	.9156	158	145.9425	1.2457	.5844
119	100.1970	1.0932	.9113	159	147.1882	1.2485	.5724
120	101.2902	1.0978	.9068	160	148.4367	1.2514	.5604

$e = 80^c$				$e = 81^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	148.4367	1.2514	.5604	0	.0000	.7060	.0000
161	149.6881	1.2542	.5483	1	.7060	.7060	.0150
162	150.9423	1.2570	.5360	2	1.4120	.7062	.0301
163	152.1993	1.2596	.5234	3	2.1182	.7064	.0451
164	153.4589	1.2622	.5109	4	2.8246	.7067	.0602
165	154.7211	1.2647	.4982	5	3.5313	.7071	.0752
166	155.9858	1.2672	.4854	6	4.2384	.7075	.0901
167	157.2530	1.2696	.4724	7	4.9459	.7080	.1051
168	158.5226	1.2720	.4594	8	5.6539	.7085	.1200
169	159.7946	1.2742	.4461	9	6.3624	.7093	.1350
170	161.0688	1.2764	.4329	10	7.0717	.7099	.1498
171	162.3452	1.2786	.4195	11	7.7816	.7108	.1647
172	163.6238	1.2806	.4060	12	8.4924	.7116	.1795
173	164.9044	1.2827	.3924	13	9.2040	.7125	.1943
174	166.1871	1.2845	.3786	14	9.9165	.7136	.2090
175	167.4716	1.2864	.3649	15	10.6301	.7146	.2236
176	168.7580	1.2882	.3510	16	11.3447	.7158	.2383
177	170.0462	1.2899	.3370	17	12.0605	.7170	.2528
178	171.3361	1.2916	.3230	18	12.7775	.7183	.2673
179	172.6277	1.2931	.3088	19	13.4958	.7197	.2817
180	173.9208	1.2947	.2947	20	14.2155	.7210	.2960
181	175.2155	1.2960	.2803	21	14.9365	.7226	.3104
182	176.5115	1.2974	.2660	22	15.6591	.7241	.3245
183	177.8089	1.2987	.2516	23	16.3832	.7258	.3387
184	179.1076	1.2999	.2371	24	17.1090	.7275	.3527
185	180.4075	1.3010	.2226	25	17.8365	.7292	.3666
186	181.7085	1.3021	.2080	26	18.5657	.7311	.3805
187	183.0106	1.3031	.1934	27	19.2968	.7330	.3942
188	184.3137	1.3040	.1787	28	20.0298	.7349	.4079
189	185.6177	1.3048	.1639	29	20.7647	.7370	.4215
190	186.9225	1.3056	.1492	30	21.5017	.7390	.4349
191	188.2281	1.3063	.1343	31	22.2407	.7413	.4483
192	189.5344	1.3068	.1195	32	22.9820	.7434	.4615
193	190.8412	1.3074	.1047	33	23.7254	.7458	.4747
194	192.1486	1.3079	.0898	34	24.4712	.7481	.4877
195	193.4565	1.3082	.0748	35	25.2193	.7505	.5005
196	194.7647	1.3086	.0599	36	25.9698	.7529	.5133
197	196.0733	1.3088	.0449	37	26.7227	.7556	.5260
198	197.3821	1.3089	.0299	38	27.4783	.7581	.5385
199	198.6910	1.3090	.0150	39	28.2364	.7607	.5509
200	200.0000	1.3090	.0000	40	28.9971	.7635	.5632



$e = 81^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	28.9971	.7635	.5632	80	62.1970	.9113	.9112
41	29.7606	.7663	.5753	81	63.1083	.9158	.9157
42	30.5269	.7691	.5872	82	64.0241	.9202	.9200
43	31.2960	.7719	.5990	83	64.9443	.9246	.9241
44	32.0679	.7750	.6107	84	65.8689	.9291	.9280
45	32.8429	.7779	.6222	85	66.7980	.9336	.9316
46	33.6208	.7810	.6336	86	67.7316	.9381	.9350
47	34.4018	.7840	.6447	87	68.6697	.9427	.9382
48	35.1858	.7873	.6559	88	69.6124	.9472	.9411
49	35.9731	.7904	.6667	89	70.5596	.9517	.9437
50	36.7635	.7938	.6775	90	71.5113	.9563	.9462
51	37.5573	.7970	.6880	91	72.4676	.9608	.9485
52	38.3543	.8004	.6984	92	73.4284	.9655	.9505
53	39.1547	.8038	.7086	93	74.3939	.9700	.9522
54	39.9585	.8073	.7187	94	75.3639	.9746	.9538
55	40.7658	.8108	.7285	95	76.3385	.9792	.9551
56	41.5766	.8144	.7382	96	77.3177	.9839	.9562
57	42.3910	.8179	.7477	97	78.3016	.9884	.9570
58	43.2089	.8217	.7571	98	79.2900	.9931	.9576
59	44.0306	.8253	.7661	99	80.2831	.9977	.9580
60	44.8559	.8290	.7750	100	81.2808	1.0023	.9581
61	45.6849	.8328	.7838	101	82.2831	1.0069	.9580
62	46.5177	.8367	.7924	102	83.2900	1.0116	.9576
63	47.3544	.8405	.8007	103	84.3016	1.0161	.9570
64	48.1949	.8444	.8089	104	85.3177	1.0208	.9562
65	49.0393	.8483	.8169	105	86.3385	1.0254	.9551
66	49.8876	.8523	.8247	106	87.3639	1.0300	.9538
67	50.7399	.8564	.8322	107	88.3939	1.0345	.9522
68	51.5963	.8603	.8395	108	89.4284	1.0392	.9505
69	52.4566	.8645	.8467	109	90.4676	1.0437	.9485
70	53.3211	.8686	.8536	110	91.5113	1.0483	.9462
71	54.1897	.8727	.8603	111	92.5596	1.0528	.9437
72	55.0624	.8769	.8669	112	93.6124	1.0573	.9411
73	55.9393	.8811	.8732	113	94.6697	1.0619	.9382
74	56.8204	.8853	.8792	114	95.7316	1.0664	.9350
75	57.7057	.8896	.8852	115	96.7980	1.0709	.9316
76	58.5953	.8939	.8908	116	97.8689	1.0754	.9280
77	59.4892	.8983	.8963	117	98.9443	1.0798	.9241
78	60.3875	.9025	.9014	118	100.0241	1.0842	.9200
79	61.2900	.9070	.9065	119	101.1083	1.0887	.9157
80	62.1970	.9113	.9112	120	102.1970	1.0930	.9112

$e = 81^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	102.1970	1.0930	.9112	160	148.9971	1.2393	.5632
121	103.2900	1.0975	.9065	161	150.2364	1.2419	.5509
122	104.3875	1.1017	.9014	162	151.4783	1.2444	.5385
123	105.4892	1.1061	.8963	163	152.7227	1.2471	.5260
124	106.5953	1.1104	.8908	164	153.9698	1.2495	.5133
125	107.7057	1.1147	.8852	165	155.2193	1.2519	.5005
126	108.8204	1.1189	.8792	166	156.4712	1.2542	.4877
127	109.9393	1.1231	.8732	167	157.7254	1.2566	.4747
128	111.0624	1.1273	.8669	168	158.9820	1.2587	.4615
129	112.1897	1.1314	.8603	169	160.2407	1.2610	.4483
130	113.3211	1.1355	.8536	170	161.5017	1.2630	.4349
131	114.4566	1.1397	.8467	171	162.7647	1.2651	.4215
132	115.5963	1.1436	.8395	172	164.0298	1.2670	.4079
133	116.7399	1.1477	.8322	173	165.2968	1.2689	.3942
134	117.8876	1.1517	.8247	174	166.5657	1.2708	.3805
135	119.0393	1.1556	.8169	175	167.8365	1.2725	.3666
136	120.1949	1.1595	.8089	176	169.1090	1.2742	.3527
137	121.3544	1.1633	.8007	177	170.3832	1.2759	.3387
138	122.5177	1.1672	.7924	178	171.6591	1.2774	.3245
139	123.6849	1.1710	.7838	179	172.9365	1.2790	.3104
140	124.8559	1.1747	.7750	180	174.2155	1.2803	.2960
141	126.0306	1.1783	.7661	181	175.4958	1.2817	.2817
142	127.2089	1.1821	.7571	182	176.7775	1.2830	.2673
143	128.3910	1.1856	.7477	183	178.0605	1.2842	.2528
144	129.5766	1.1892	.7382	184	179.3447	1.2854	.2383
145	130.7658	1.1927	.7285	185	180.6301	1.2864	.2236
146	131.9585	1.1962	.7187	186	181.9165	1.2875	.2090
147	133.1547	1.1996	.7086	187	183.2040	1.2884	.1943
148	134.3543	1.2030	.6984	188	184.4924	1.2892	.1795
149	135.5573	1.2062	.6880	189	185.7816	1.2901	.1647
150	136.7635	1.2096	.6775	190	187.0717	1.2907	.1498
151	137.9731	1.2127	.6667	191	188.3624	1.2915	.1350
152	139.1858	1.2160	.6559	192	189.6539	1.2920	.1200
153	140.4018	1.2190	.6447	193	190.9459	1.2925	.1051
154	141.6208	1.2221	.6336	194	192.2384	1.2929	.0901
155	142.8429	1.2250	.6222	195	193.5313	1.2933	.0752
156	144.0679	1.2281	.6107	196	194.8246	1.2936	.0602
157	145.2960	1.2309	.5990	197	196.1182	1.2938	.0451
158	146.5269	1.2337	.5872	198	197.4120	1.2940	.0301
159	147.7606	1.2365	.5753	199	198.7060	1.2940	.0150
160	148.9971	1.2393	.5632	200	200.0000	1.2940	.0000

$e = 82^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.7210	.0000	40	29.5603	.7756	.5657
1	.7210	.7211	.0151	41	30.3359	.7782	.5778
2	1.4421	.7212	.0302	42	31.1141	.7809	.5899
3	2.1633	.7215	.0454	43	31.8950	.7836	.6017
4	2.8848	.7217	.0604	44	32.6786	.7865	.6135
5	3.6065	.7220	.0755	45	33.4651	.7893	.6250
6	4.3285	.7225	.0906	46	34.2544	.7921	.6364
7	5.0510	.7229	.1056	47	35.0465	.7952	.6478
8	5.7739	.7235	.1207	48	35.8417	.7981	.6588
9	6.4974	.7241	.1356	49	36.6398	.8012	.6698
10	7.2215	.7248	.1506	50	37.4410	.8043	.6805
11	7.9463	.7256	.1655	51	38.2453	.8074	.6911
12	8.6719	.7264	.1803	52	39.0527	.8106	.7016
13	9.3983	.7272	.1951	53	39.8633	.8139	.7119
14	10.1255	.7282	.2100	54	40.6772	.8171	.7219
15	10.8537	.7293	.2247	55	41.4943	.8205	.7319
16	11.5830	.7303	.2393	56	42.3148	.8239	.7416
17	12.3133	.7315	.2540	57	43.1387	.8273	.7511
18	13.0448	.7327	.2685	58	43.9660	.8307	.7604
19	13.7775	.7340	.2830	59	44.7967	.8342	.7697
20	14.5115	.7354	.2974	60	45.6309	.8378	.7787
21	15.2469	.7367	.3117	61	46.4687	.8414	.7875
22	15.9836	.7383	.3261	62	47.3101	.8450	.7960
23	16.7219	.7398	.3402	63	48.1551	.8487	.8044
24	17.4617	.7414	.3543	64	49.0038	.8524	.8126
25	18.2031	.7431	.3683	65	49.8562	.8561	.8206
26	18.9462	.7448	.3822	66	50.7123	.8598	.8284
27	19.6910	.7467	.3961	67	51.5721	.8637	.8360
28	20.4377	.7485	.4098	68	52.4358	.8675	.8434
29	21.1862	.7504	.4234	69	53.3033	.8714	.8506
30	21.9366	.7524	.4370	70	54.1747	.8753	.8576
31	22.6890	.7545	.4504	71	55.0500	.8793	.8643
32	23.4435	.7566	.4637	72	55.9293	.8832	.8708
33	24.2001	.7588	.4768	73	56.8125	.8871	.8771
34	24.9589	.7609	.4899	74	57.6996	.8913	.8833
35	25.7198	.7633	.5029	75	58.5909	.8952	.8891
36	26.4831	.7656	.5157	76	59.4861	.8994	.8949
37	27.2487	.7681	.5284	77	60.3855	.9034	.9003
38	28.0168	.7705	.5409	78	61.2889	.9076	.9055
39	28.7873	.7730	.5534	79	62.1965	.9117	.9105
40	29.5603	.7756	.5657	80	63.1082	.9158	.9153

$e = 82^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	63.1082	.9158	.9153	120	103.1082	1.0883	.9153
81	64.0240	.9201	.9199	121	104.1965	1.0924	.9105
82	64.9441	.9243	.9242	122	105.2889	1.0966	.9055
83	65.8684	.9285	.9283	123	106.3855	1.1006	.9003
84	66.7969	.9327	.9322	124	107.4861	1.1048	.8949
85	67.7296	.9370	.9359	125	108.5909	1.1087	.8891
86	68.6666	.9413	.9393	126	109.6996	1.1129	.8833
87	69.6079	.9456	.9424	127	110.8125	1.1168	.8771
88	70.5535	.9498	.9454	128	111.9293	1.1207	.8708
89	71.5033	.9542	.9482	129	113.0500	1.1247	.8643
90	72.4575	.9586	.9506	130	114.1747	1.1286	.8576
91	73.4161	.9628	.9528	131	115.3033	1.1325	.8506
92	74.3789	.9672	.9549	132	116.4358	1.1363	.8434
93	75.3461	.9716	.9567	133	117.5721	1.1402	.8360
94	76.3177	.9759	.9582	134	118.7123	1.1439	.8284
95	77.2936	.9803	.9595	135	119.8562	1.1476	.8206
96	78.2739	.9847	.9606	136	121.0038	1.1513	.8126
97	79.2586	.9890	.9614	137	122.1551	1.1550	.8044
98	80.2476	.9935	.9620	138	123.3101	1.1586	.7960
99	81.2411	.9978	.9623	139	124.4687	1.1622	.7875
100	82.2389	1.0022	.9624	140	125.6309	1.1658	.7787
101	83.2411	1.0065	.9623	141	126.7967	1.1693	.7697
102	84.2476	1.0110	.9620	142	127.9660	1.1727	.7604
103	85.2586	1.0153	.9614	143	129.1387	1.1761	.7511
104	86.2739	1.0197	.9606	144	130.3148	1.1795	.7416
105	87.2936	1.0241	.9595	145	131.4943	1.1829	.7319
106	88.3177	1.0284	.9582	146	132.6772	1.1861	.7219
107	89.3461	1.0328	.9567	147	133.8633	1.1894	.7119
108	90.3789	1.0372	.9549	148	135.0527	1.1926	.7016
109	91.4161	1.0414	.9528	149	136.2453	1.1957	.6911
110	92.4575	1.0458	.9506	150	137.4410	1.1988	.6805
111	93.5033	1.0502	.9482	151	138.6398	1.2019	.6698
112	94.5535	1.0544	.9454	152	139.8417	1.2048	.6588
113	95.6079	1.0587	.9424	153	141.0465	1.2079	.6478
114	96.6666	1.0630	.9393	154	142.2544	1.2107	.6364
115	97.7296	1.0673	.9359	155	143.4651	1.2135	.6250
116	98.7969	1.0715	.9322	156	144.6786	1.2164	.6135
117	99.8684	1.0757	.9283	157	145.8950	1.2191	.6017
118	100.9441	1.0799	.9242	158	147.1141	1.2218	.5899
119	102.0240	1.0842	.9199	159	148.3359	1.2244	.5778
120	103.1082	1.0883	.9153	160	149.5603	1.2270	.5657

$e = 82^{\circ}$				$e = 83^{\circ}$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	149.5603	1.2270	.5657	0	.0000	.7361	.0000
161	150.7873	1.2295	.5534	1	.7361	.7362	.0152
162	152.0168	1.2319	.5409	2	1.4723	.7364	.0304
163	153.2487	1.2344	.5284	3	2.2087	.7365	.0455
164	154.4831	1.2367	.5157	4	2.9452	.7368	.0607
165	155.7198	1.2391	.5029	5	3.6820	.7371	.0758
166	156.9589	1.2412	.4899	6	4.4191	.7375	.0910
167	158.2001	1.2434	.4768	7	5.1566	.7380	.1061
168	159.4435	1.2455	.4637	8	5.8946	.7384	.1211
169	160.6890	1.2476	.4504	9	6.6330	.7391	.1362
170	161.9366	1.2496	.4370	10	7.3721	.7397	.1512
171	163.1862	1.2515	.4234	11	8.1118	.7404	.1662
172	164.4377	1.2533	.4098	12	8.8522	.7412	.1812
173	165.6910	1.2552	.3961	13	9.5934	.7421	.1961
174	166.9462	1.2569	.3822	14	10.3355	.7429	.2108
175	168.2031	1.2586	.3683	15	11.0784	.7439	.2257
176	169.4617	1.2602	.3543	16	11.8223	.7450	.2404
177	170.7219	1.2617	.3402	17	12.5673	.7460	.2550
178	171.9836	1.2633	.3261	18	13.3133	.7472	.2697
179	173.2469	1.2646	.3117	19	14.0605	.7484	.2842
180	174.5115	1.2660	.2974	20	14.8089	.7497	.2987
181	175.7775	1.2673	.2830	21	15.5586	.7511	.3131
182	177.0448	1.2685	.2685	22	16.3097	.7524	.3274
183	178.3133	1.2697	.2540	23	17.0621	.7539	.3417
184	179.5830	1.2707	.2393	24	17.8160	.7554	.3558
185	180.8537	1.2718	.2247	25	18.5714	.7570	.3699
186	182.1255	1.2728	.2100	26	19.3284	.7587	.3839
187	183.3983	1.2736	.1951	27	20.0871	.7604	.3978
188	184.6719	1.2744	.1803	28	20.8475	.7621	.4115
189	185.9463	1.2752	.1655	29	21.6096	.7640	.4252
190	187.2215	1.2759	.1506	30	22.3736	.7658	.4388
191	188.4974	1.2765	.1356	31	23.1394	.7678	.4523
192	189.7739	1.2771	.1207	32	23.9072	.7697	.4656
193	191.0510	1.2775	.1056	33	24.6769	.7719	.4790
194	192.3285	1.2780	.0906	34	25.4488	.7739	.4920
195	193.6065	1.2783	.0755	35	26.2227	.7761	.5051
196	194.8848	1.2785	.0604	36	26.9988	.7783	.5179
197	196.1633	1.2788	.0454	37	27.7771	.7806	.5307
198	197.4421	1.2789	.0302	38	28.5577	.7830	.5433
199	198.7210	1.2790	.0151	39	29.3407	.7853	.5558
200	200.0000	1.2790	.0000	40	30.1260	.7877	.5681

$e = 83^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	30.1260	.7877	.5681	80	64.0235	.9204	.9193
41	30.9137	.7903	.5804	81	64.9439	.9244	.9239
42	31.7040	.7927	.5924	82	65.8683	.9284	.9282
43	32.4967	.7954	.6044	83	66.7967	.9324	.9323
44	33.2921	.7980	.6161	84	67.7291	.9364	.9362
45	34.0901	.8007	.6278	85	68.6655	.9404	.9399
46	34.8908	.8035	.6393	86	69.6059	.9444	.9433
47	35.6943	.8062	.6505	87	70.5503	.9486	.9466
48	36.5005	.8091	.6617	88	71.4989	.9526	.9494
49	37.3096	.8119	.6726	89	72.4515	.9566	.9522
50	38.1215	.8149	.6835	90	73.4081	.9608	.9547
51	38.9364	.8179	.6942	91	74.3689	.9649	.9570
52	39.7543	.8209	.7046	92	75.3338	.9690	.9590
53	40.5752	.8239	.7149	93	76.3028	.9731	.9607
54	41.3991	.8271	.7251	94	77.2759	.9772	.9623
55	42.2262	.8302	.7350	95	78.2531	.9814	.9636
56	43.0564	.8334	.7448	96	79.2345	.9855	.9647
57	43.8898	.8366	.7544	97	80.2200	.9896	.9655
58	44.7264	.8400	.7638	98	81.2096	.9938	.9661
59	45.5664	.8432	.7729	99	82.2034	.9979	.9665
60	46.4096	.8466	.7820	100	83.2013	1.0021	.9666
61	47.2562	.8499	.7908	101	84.2034	1.0062	.9665
62	48.1061	.8534	.7995	102	85.2096	1.0104	.9661
63	48.9595	.8569	.8079	103	86.2200	1.0145	.9655
64	49.8164	.8604	.8161	104	87.2345	1.0186	.9647
65	50.6768	.8639	.8241	105	88.2531	1.0228	.9636
66	51.5407	.8674	.8320	106	89.2759	1.0269	.9623
67	52.4081	.8711	.8396	107	90.3028	1.0310	.9607
68	53.2792	.8747	.8470	108	91.3338	1.0351	.9590
69	54.1539	.8784	.8542	109	92.3689	1.0392	.9570
70	55.0323	.8820	.8612	110	93.4081	1.0434	.9547
71	55.9143	.8858	.8680	111	94.4515	1.0474	.9522
72	56.8001	.8895	.8746	112	95.4989	1.0514	.9494
73	57.6896	.8933	.8810	113	96.5503	1.0556	.9466
74	58.5829	.8971	.8871	114	97.6059	1.0596	.9433
75	59.4800	.9010	.8931	115	98.6655	1.0636	.9399
76	60.3810	.9048	.8987	116	99.7291	1.0676	.9362
77	61.2858	.9086	.9042	117	100.7967	1.0716	.9323
78	62.1944	.9126	.9095	118	101.8683	1.0756	.9282
79	63.1070	.9165	.9145	119	102.9439	1.0796	.9239
80	64.0235	.9204	.9193	120	104.0235	1.0835	.9193

$e = 83^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	104.0235	1.0835	.9193	160	150.1260	1.2147	.5681
121	105.1070	1.0874	.9145	161	151.3407	1.2170	.5558
122	106.1944	1.0914	.9095	162	152.5577	1.2194	.5433
123	107.2858	1.0952	.9042	163	153.7771	1.2217	.5307
124	108.3810	1.0990	.8987	164	154.9988	1.2239	.5179
125	109.4800	1.1029	.8931	165	156.2227	1.2261	.5051
126	110.5829	1.1067	.8871	166	157.4488	1.2281	.4920
127	111.6896	1.1105	.8810	167	158.6769	1.2303	.4790
128	112.8001	1.1142	.8746	168	159.9072	1.2322	.4656
129	113.9143	1.1180	.8680	169	161.1394	1.2342	.4523
130	115.0323	1.1216	.8612	170	162.3736	1.2360	.4388
131	116.1539	1.1253	.8542	171	163.6096	1.2379	.4252
132	117.2792	1.1289	.8470	172	164.8475	1.2396	.4115
133	118.4081	1.1326	.8396	173	166.0871	1.2413	.3978
134	119.5407	1.1361	.8320	174	167.3284	1.2430	.3839
135	120.6768	1.1396	.8241	175	168.5714	1.2446	.3699
136	121.8164	1.1431	.8161	176	169.8160	1.2461	.3558
137	122.9595	1.1466	.8079	177	171.0621	1.2476	.3417
138	124.1061	1.1501	.7995	178	172.3097	1.2489	.3274
139	125.2562	1.1534	.7908	179	173.5586	1.2503	.3131
140	126.4096	1.1568	.7820	180	174.8089	1.2516	.2987
141	127.5664	1.1600	.7729	181	176.0605	1.2528	.2842
142	128.7264	1.1634	.7638	182	177.3133	1.2540	.2697
143	129.8898	1.1666	.7544	183	178.5673	1.2550	.2550
144	131.0564	1.1698	.7448	184	179.8223	1.2561	.2404
145	132.2262	1.1729	.7350	185	181.0784	1.2571	.2257
146	133.3991	1.1761	.7251	186	182.3355	1.2579	.2108
147	134.5752	1.1791	.7149	187	183.5934	1.2588	.1961
148	135.7543	1.1821	.7046	188	184.8522	1.2596	.1812
149	136.9364	1.1851	.6942	189	186.1118	1.2603	.1662
150	138.1215	1.1881	.6835	190	187.3721	1.2609	.1512
151	139.3096	1.1909	.6726	191	188.6330	1.2616	.1362
152	140.5005	1.1938	.6617	192	189.8946	1.2620	.1211
153	141.6943	1.1965	.6505	193	191.1566	1.2625	.1061
154	142.8908	1.1993	.6393	194	192.4191	1.2629	.0910
155	144.0901	1.2020	.6278	195	193.6820	1.2632	.0758
156	145.2921	1.2046	.6161	196	194.9452	1.2635	.0607
157	146.4967	1.2073	.6044	197	196.2087	1.2636	.0455
158	147.7040	1.2097	.5924	198	197.4723	1.2638	.0304
159	148.9137	1.2123	.5804	199	198.7361	1.2639	.0152
160	150.1260	1.2147	.5681	200	200.0000	1.2639	.0000

$e = 84^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.7513	.0000	40	30.6941	.8000	.5705
1	.7513	.7514	.0153	41	31.4941	.8023	.5827
2	1.5027	.7515	.0305	42	32.2964	.8047	.5948
3	2.2542	.7517	.0457	43	33.1011	.8071	.6068
4	3.0059	.7519	.0609	44	33.9082	.8097	.6187
5	3.7578	.7523	.0762	45	34.7179	.8122	.6303
6	4.5101	.7526	.0913	46	35.5301	.8147	.6418
7	5.2627	.7530	.1065	47	36.3448	.8174	.6532
8	6.0157	.7535	.1216	48	37.1622	.8200	.6643
9	6.7692	.7541	.1368	49	37.9822	.8228	.6754
10	7.5233	.7547	.1518	50	38.8050	.8256	.6863
11	8.2780	.7554	.1669	51	39.6306	.8283	.6969
12	9.0334	.7561	.1818	52	40.4589	.8312	.7075
13	9.7895	.7568	.1968	53	41.2901	.8341	.7178
14	10.5463	.7578	.2117	54	42.1242	.8370	.7280
15	11.3041	.7586	.2265	55	42.9612	.8400	.7380
16	12.0627	.7596	.2414	56	43.8012	.8430	.7477
17	12.8223	.7607	.2561	57	44.6442	.8460	.7574
18	13.5830	.7617	.2707	58	45.4902	.8491	.7668
19	14.3447	.7629	.2854	59	46.3393	.8523	.7761
20	15.1076	.7641	.2999	60	47.1916	.8554	.7851
21	15.8717	.7654	.3144	61	48.0470	.8586	.7940
22	16.6371	.7667	.3287	62	48.9056	.8618	.8027
23	17.4038	.7680	.3430	63	49.7674	.8651	.8112
24	18.1718	.7695	.3573	64	50.6325	.8684	.8194
25	18.9413	.7710	.3714	65	51.5009	.8718	.8275
26	19.7123	.7726	.3854	66	52.3727	.8750	.8353
27	20.4849	.7741	.3993	67	53.2477	.8785	.8431
28	21.2590	.7758	.4132	68	54.1262	.8819	.8505
29	22.0348	.7776	.4270	69	55.0081	.8854	.8577
30	22.8124	.7793	.4406	70	55.8935	.8888	.8647
31	23.5917	.7811	.4541	71	56.7823	.8924	.8716
32	24.3728	.7831	.4676	72	57.6747	.8959	.8781
33	25.1559	.7849	.4808	73	58.5706	.8994	.8845
34	25.9408	.7870	.4940	74	59.4700	.9031	.8907
35	26.7278	.7889	.5070	75	60.3731	.9066	.8966
36	27.5167	.7911	.5201	76	61.2797	.9103	.9023
37	28.3078	.7932	.5328	77	62.1900	.9139	.9078
38	29.1010	.7955	.5455	78	63.1039	.9176	.9131
39	29.8965	.7976	.5580	79	64.0215	.9213	.9182
40	30.6941	.8000	.5705	80	64.9428	.9250	.9230



$e = 84^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	64.9428	.9250	.9230	120	104.9428	1.0787	.9230
81	65.8678	.9287	.9276	121	106.0215	1.0824	.9182
82	66.7965	.9325	.9320	122	107.1039	1.0861	.9131
83	67.7290	.9363	.9361	123	108.1900	1.0897	.9078
84	68.6653	.9401	.9400	124	109.2797	1.0934	.9023
85	69.6054	.9438	.9436	125	110.3731	1.0969	.8966
86	70.5492	.9477	.9471	126	111.4700	1.1006	.8907
87	71.4969	.9514	.9503	127	112.5706	1.1041	.8845
88	72.4483	.9554	.9533	128	113.6747	1.1076	.8781
89	73.4037	.9591	.9560	129	114.7823	1.1112	.8716
90	74.3628	.9631	.9586	130	115.8935	1.1146	.8647
91	75.3259	.9669	.9608	131	117.0081	1.1181	.8577
92	76.2928	.9707	.9628	132	118.1262	1.1215	.8505
93	77.2635	.9747	.9647	133	119.2477	1.1250	.8431
94	78.2382	.9785	.9662	134	120.3727	1.1282	.8353
95	79.2167	.9825	.9675	135	121.5009	1.1316	.8275
96	80.1992	.9863	.9685	136	122.6325	1.1349	.8194
97	81.1855	.9902	.9694	137	123.7674	1.1382	.8112
98	82.1757	.9942	.9700	138	124.9056	1.1414	.8027
99	83.1699	.9980	.9703	139	126.0470	1.1446	.7940
100	84.1679	1.0020	.9705	140	127.1916	1.1477	.7851
101	85.1699	1.0058	.9703	141	128.3393	1.1509	.7761
102	86.1757	1.0098	.9700	142	129.4902	1.1540	.7668
103	87.1855	1.0137	.9694	143	130.6442	1.1570	.7574
104	88.1992	1.0175	.9685	144	131.8012	1.1600	.7477
105	89.2167	1.0215	.9675	145	132.9612	1.1630	.7380
106	90.2382	1.0253	.9662	146	134.1242	1.1659	.7280
107	91.2635	1.0293	.9647	147	135.2901	1.1688	.7178
108	92.2928	1.0331	.9628	148	136.4589	1.1717	.7075
109	93.3259	1.0369	.9608	149	137.6306	1.1744	.6969
110	94.3628	1.0409	.9586	150	138.8050	1.1772	.6863
111	95.4037	1.0446	.9560	151	139.9822	1.1800	.6754
112	96.4483	1.0486	.9533	152	141.1622	1.1826	.6643
113	97.4969	1.0523	.9503	153	142.3448	1.1853	.6532
114	98.5492	1.0562	.9471	154	143.5301	1.1878	.6418
115	99.6054	1.0599	.9436	155	144.7179	1.1903	.6303
116	100.6653	1.0637	.9400	156	145.9082	1.1929	.6187
117	101.7290	1.0675	.9361	157	147.1011	1.1953	.6068
118	102.7965	1.0713	.9320	158	148.2964	1.1977	.5948
119	103.8678	1.0750	.9276	159	149.4941	1.2000	.5827
120	104.9428	1.0787	.9230	160	150.6941	1.2024	.5705

$e = 84^c$				$e = 85^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	150.6941	1.2024	.5705	0	.0000	.7666	.0000
161	151.8965	1.2045	.5580	1	.7666	.7666	.0153
162	153.1010	1.2068	.5455	2	1.5332	.7667	.0306
163	154.3078	1.2089	.5328	3	2.2999	.7669	.0459
164	155.5167	1.2111	.5201	4	3.0668	.7672	.0612
165	156.7278	1.2130	.5070	5	3.8340	.7674	.0764
166	157.9408	1.2151	.4940	6	4.6014	.7678	.0917
167	159.1559	1.2169	.4808	7	5.3692	.7681	.1069
168	160.3728	1.2189	.4676	8	6.1373	.7687	.1221
169	161.5917	1.2207	.4541	9	6.9060	.7691	.1372
170	162.8124	1.2224	.4406	10	7.6751	.7698	.1524
171	164.0348	1.2242	.4270	11	8.4449	.7703	.1674
172	165.2590	1.2259	.4132	12	9.2152	.7711	.1826
173	166.4849	1.2274	.3993	13	9.9863	.7717	.1975
174	167.7123	1.2290	.3854	14	10.7580	.7726	.2126
175	168.9413	1.2305	.3714	15	11.5306	.7735	.2274
176	170.1718	1.2320	.3573	16	12.3041	.7743	.2422
177	171.4038	1.2333	.3430	17	13.0784	.7753	.2571
178	172.6371	1.2346	.3287	18	13.8537	.7764	.2718
179	173.8717	1.2359	.3144	19	14.6301	.7774	.2864
180	175.1076	1.2371	.2999	20	15.4075	.7786	.3010
181	176.3447	1.2383	.2854	21	16.1861	.7797	.3155
182	177.5830	1.2393	.2707	22	16.9658	.7810	.3300
183	178.8223	1.2404	.2561	23	17.7468	.7823	.3443
184	180.0627	1.2414	.2414	24	18.5291	.7836	.3586
185	181.3041	1.2422	.2265	25	19.3127	.7850	.3728
186	182.5463	1.2432	.2117	26	20.0977	.7865	.3869
187	183.7895	1.2439	.1968	27	20.8842	.7880	.4009
188	185.0334	1.2446	.1818	28	21.6722	.7896	.4148
189	186.2780	1.2453	.1669	29	22.4618	.7912	.4286
190	187.5233	1.2459	.1518	30	23.2530	.7928	.4422
191	188.7692	1.2465	.1368	31	24.0458	.7946	.4559
192	190.0157	1.2470	.1216	32	24.8404	.7963	.4693
193	191.2627	1.2474	.1065	33	25.6367	.7981	.4827
194	192.5101	1.2477	.0913	34	26.4348	.8000	.4959
195	193.7578	1.2481	.0762	35	27.2348	.8020	.5090
196	195.0059	1.2483	.0609	36	28.0368	.8038	.5219
197	196.2542	1.2485	.0457	37	28.8406	.8059	.5349
198	197.5027	1.2486	.0305	38	29.6465	.8080	.5476
199	198.7513	1.2487	.0153	39	30.4545	.8101	.5602
200	200.0000	1.2487	.0000	40	31.2646	.8122	.5726

$e = 85^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	31.2646	.8122	.5726	80	65.8658	.9296	.9265
41	32.0768	.8144	.5849	81	66.7954	.9331	.9311
42	32.8912	.8167	.5971	82	67.7285	.9366	.9355
43	33.7079	.8190	.6091	83	68.6651	.9402	.9397
44	34.5269	.8213	.6209	84	69.6053	.9437	.9436
45	35.3482	.8237	.6326	85	70.5490	.9473	.9473
46	36.1719	.8261	.6442	86	71.4963	.9509	.9507
47	36.9980	.8285	.6556	87	72.4472	.9544	.9539
48	37.8265	.8311	.6669	88	73.4016	.9581	.9570
49	38.6576	.8337	.6780	89	74.3597	.9617	.9597
50	39.4913	.8362	.6888	90	75.3214	.9653	.9621
51	40.3275	.8389	.6996	91	76.2867	.9689	.9644
52	41.1664	.8415	.7101	92	77.2556	.9726	.9665
53	42.0079	.8443	.7205	93	78.2282	.9762	.9682
54	42.8522	.8470	.7307	94	79.2044	.9798	.9698
55	43.6992	.8497	.7407	95	80.1842	.9835	.9712
56	44.5489	.8527	.7507	96	81.1677	.9872	.9723
57	45.4016	.8554	.7602	97	82.1549	.9908	.9731
58	46.2570	.8584	.7698	98	83.1457	.9945	.9737
59	47.1154	.8613	.7790	99	84.1402	.9982	.9741
60	47.9767	.8643	.7881	100	85.1384	1.0018	.9742
61	48.8410	.8673	.7970	101	86.1402	1.0055	.9741
62	49.7083	.8703	.8057	102	87.1457	1.0092	.9737
63	50.5786	.8733	.8142	103	88.1549	1.0128	.9731
64	51.4519	.8765	.8226	104	89.1677	1.0165	.9723
65	52.3284	.8796	.8306	105	90.1842	1.0202	.9712
66	53.2080	.8828	.8385	106	91.2044	1.0238	.9698
67	54.0908	.8859	.8461	107	92.2282	1.0274	.9682
68	54.9767	.8891	.8537	108	93.2556	1.0311	.9665
69	55.8658	.8924	.8610	109	94.2867	1.0347	.9644
70	56.7582	.8957	.8680	110	95.3214	1.0383	.9621
71	57.6539	.8989	.8748	111	96.3597	1.0419	.9597
72	58.5528	.9023	.8815	112	97.4016	1.0456	.9570
73	59.4551	.9056	.8879	113	98.4472	1.0491	.9539
74	60.3607	.9090	.8940	114	99.4963	1.0527	.9507
75	61.2697	.9123	.9000	115	100.5490	1.0563	.9473
76	62.1820	.9158	.9058	116	101.6053	1.0598	.9436
77	63.0978	.9192	.9113	117	102.6651	1.0634	.9397
78	64.0170	.9227	.9166	118	103.7285	1.0669	.9355
79	64.9397	.9261	.9216	119	104.7954	1.0704	.9311
80	65.8658	.9296	.9265	120	105.8658	1.0739	.9265

$e = 85^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	105.8658	1.0739	.9265	160	151.2646	1.1899	.5726
121	106.9397	1.0773	.9216	161	152.4545	1.1920	.5602
122	108.0170	1.0808	.9166	162	153.6465	1.1941	.5476
123	109.0978	1.0842	.9113	163	154.8406	1.1962	.5349
124	110.1820	1.0877	.9058	164	156.0368	1.1980	.5219
125	111.2697	1.0910	.9000	165	157.2348	1.2000	.5090
126	112.3607	1.0944	.8940	166	158.4348	1.2019	.4959
127	113.4551	1.0977	.8879	167	159.6367	1.2037	.4827
128	114.5528	1.1011	.8815	168	160.8404	1.2054	.4693
129	115.6539	1.1043	.8748	169	162.0458	1.2072	.4559
130	116.7582	1.1076	.8680	170	163.2530	1.2088	.4422
131	117.8658	1.1109	.8610	171	164.4618	1.2104	.4286
132	118.9767	1.1141	.8537	172	165.6722	1.2120	.4148
133	120.0908	1.1172	.8461	173	166.8842	1.2135	.4009
134	121.2080	1.1204	.8385	174	168.0977	1.2150	.3869
135	122.3284	1.1235	.8306	175	169.3127	1.2164	.3728
136	123.4519	1.1267	.8226	176	170.5291	1.2177	.3586
137	124.5786	1.1297	.8142	177	171.7468	1.2190	.3443
138	125.7083	1.1327	.8057	178	172.9658	1.2203	.3300
139	126.8410	1.1357	.7970	179	174.1861	1.2214	.3155
140	127.9767	1.1387	.7881	180	175.4075	1.2226	.3010
141	129.1154	1.1416	.7790	181	176.6301	1.2236	.2864
142	130.2570	1.1446	.7698	182	177.8537	1.2247	.2718
143	131.4016	1.1473	.7602	183	179.0784	1.2257	.2571
144	132.5489	1.1503	.7507	184	180.3041	1.2265	.2422
145	133.6992	1.1530	.7407	185	181.5306	1.2274	.2274
146	134.8522	1.1557	.7307	186	182.7580	1.2283	.2126
147	136.0079	1.1585	.7205	187	183.9863	1.2289	.1975
148	137.1664	1.1611	.7101	188	185.2152	1.2297	.1826
149	138.3275	1.1638	.6996	189	186.4449	1.2302	.1674
150	139.4913	1.1663	.6888	190	187.6751	1.2309	.1524
151	140.6576	1.1689	.6780	191	188.9060	1.2313	.1372
152	141.8265	1.1715	.6669	192	190.1373	1.2319	.1221
153	142.9980	1.1739	.6556	193	191.3692	1.2322	.1069
154	144.1719	1.1763	.6442	194	192.6014	1.2326	.0917
155	145.3482	1.1787	.6326	195	193.8340	1.2328	.0764
156	146.5269	1.1810	.6209	196	195.0668	1.2331	.0612
157	147.7079	1.1833	.6091	197	196.2999	1.2333	.0459
158	148.8912	1.1856	.5971	198	197.5332	1.2334	.0306
159	150.0768	1.1878	.5849	199	198.7666	1.2334	.0153
160	151.2646	1.1899	.5726	200	200.0000	1.2334	.0000

$e = 86^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.7819	.0000	40	31.8372	.8245	.5746
1	.7819	.7819	.0153	41	32.6617	.8266	.5870
2	1.5638	.7820	.0307	42	33.4883	.8287	.5992
3	2.3458	.7822	.0461	43	34.3170	.8308	.6112
4	3.1280	.7824	.0614	44	35.1478	.8330	.6232
5	3.9104	.7827	.0767	45	35.9808	.8353	.6349
6	4.6931	.7830	.0920	46	36.8161	.8375	.6465
7	5.4761	.7833	.1072	47	37.6536	.8398	.6579
8	6.2594	.7838	.1226	48	38.4934	.8422	.6692
9	7.0432	.7843	.1378	49	39.3356	.8445	.6803
10	7.8275	.7848	.1530	50	40.1801	.8470	.6913
11	8.6123	.7855	.1681	51	41.0271	.8494	.7020
12	9.3978	.7860	.1831	52	41.8765	.8519	.7126
13	10.1838	.7868	.1982	53	42.7284	.8545	.7231
14	10.9706	.7874	.2132	54	43.5829	.8570	.7333
15	11.7580	.7883	.2283	55	44.4399	.8597	.7434
16	12.5463	.7892	.2432	56	45.2996	.8622	.7532
17	13.3355	.7900	.2579	57	46.1618	.8650	.7630
18	14.1255	.7910	.2728	58	47.0268	.8676	.7724
19	14.9165	.7920	.2875	59	47.8944	.8704	.7818
20	15.7085	.7931	.3021	60	48.7648	.8732	.7909
21	16.5016	.7942	.3167	61	49.6380	.8760	.7998
22	17.2958	.7953	.3311	62	50.5140	.8788	.8085
23	18.0911	.7966	.3456	63	51.3928	.8817	.8171
24	18.8877	.7978	.3599	64	52.2745	.8845	.8254
25	19.6855	.7991	.3741	65	53.1590	.8875	.8336
26	20.4846	.8005	.3883	66	54.0465	.8904	.8415
27	21.2851	.8019	.4023	67	54.9369	.8935	.8492
28	22.0870	.8034	.4163	68	55.8304	.8964	.8566
29	22.8904	.8048	.4301	69	56.7268	.8994	.8639
30	23.6952	.8065	.4439	70	57.6262	.9025	.8710
31	24.5017	.8080	.4574	71	58.5287	.9056	.8779
32	25.3097	.8097	.4709	72	59.4343	.9087	.8845
33	26.1194	.8113	.4843	73	60.3430	.9117	.8909
34	26.9307	.8131	.4977	74	61.2547	.9150	.8972
35	27.7438	.8149	.5108	75	62.1697	.9181	.9032
36	28.5587	.8168	.5239	76	63.0878	.9213	.9089
37	29.3755	.8186	.5367	77	64.0091	.9245	.9145
38	30.1941	.8206	.5495	78	64.9336	.9277	.9198
39	31.0147	.8225	.5621	79	65.8613	.9310	.9249
40	31.8372	.8245	.5746	80	66.7923	.9342	.9297

$e = 86^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	66.7923	.9342	.9297	120	106.7923	1.0690	.9297
81	67.7265	.9375	.9344	121	107.8613	1.0723	.9249
82	68.6640	.9408	.9388	122	108.9336	1.0755	.9198
83	69.6048	.9441	.9429	123	110.0091	1.0787	.9145
84	70.5489	.9474	.9468	124	111.0878	1.0819	.9089
85	71.4963	.9507	.9506	125	112.1697	1.0850	.9032
86	72.4470	.9541	.9541	126	113.2547	1.0883	.8972
87	73.4011	.9575	.9573	127	114.3430	1.0913	.8909
88	74.3586	.9608	.9602	128	115.4343	1.0944	.8845
89	75.3194	.9641	.9630	129	116.5287	1.0975	.8779
90	76.2835	.9676	.9656	130	117.6262	1.1006	.8710
91	77.2511	.9710	.9679	131	118.7268	1.1036	.8639
92	78.2221	.9743	.9699	132	119.8304	1.1065	.8566
93	79.1964	.9778	.9717	133	120.9369	1.1096	.8492
94	80.1742	.9812	.9733	134	122.0465	1.1125	.8415
95	81.1554	.9846	.9746	135	123.1590	1.1155	.8336
96	82.1400	.9880	.9756	136	124.2745	1.1183	.8254
97	83.1280	.9914	.9765	137	125.3928	1.1212	.8171
98	84.1194	.9949	.9771	138	126.5140	1.1240	.8085
99	85.1143	.9983	.9775	139	127.6380	1.1268	.7998
100	86.1126	1.0017	.9776	140	128.7648	1.1296	.7909
101	87.1143	1.0051	.9775	141	129.8944	1.1324	.7818
102	88.1194	1.0086	.9771	142	131.0268	1.1350	.7724
103	89.1280	1.0120	.9765	143	132.1618	1.1378	.7630
104	90.1400	1.0154	.9756	144	133.2996	1.1403	.7532
105	91.1554	1.0188	.9746	145	134.4399	1.1430	.7434
106	92.1742	1.0222	.9733	146	135.5829	1.1455	.7333
107	93.1964	1.0257	.9717	147	136.7284	1.1481	.7231
108	94.2221	1.0290	.9699	148	137.8765	1.1506	.7126
109	95.2511	1.0324	.9679	149	139.0271	1.1530	.7020
110	96.2835	1.0359	.9656	150	140.1801	1.1555	.6913
111	97.3194	1.0392	.9630	151	141.3356	1.1578	.6803
112	98.3586	1.0425	.9602	152	142.4934	1.1602	.6692
113	99.4011	1.0459	.9573	153	143.6536	1.1625	.6579
114	100.4470	1.0493	.9541	154	144.8161	1.1647	.6465
115	101.4963	1.0526	.9506	155	145.9808	1.1670	.6349
116	102.5489	1.0559	.9468	156	147.1478	1.1692	.6232
117	103.6048	1.0592	.9429	157	148.3170	1.1713	.6112
118	104.6640	1.0625	.9388	158	149.4883	1.1734	.5992
119	105.7265	1.0658	.9344	159	150.6617	1.1755	.5870
120	106.7923	1.0690	.9297	160	151.8372	1.1775	.5746

$e = 86^c$				$e = 87^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	151.8372	1.1775	.5746	0	.0000	.7972	.0000
161	153.0147	1.1794	.5621	1	.7972	.7973	.0154
162	154.1941	1.1814	.5495	2	1.5945	.7974	.0308
163	155.3755	1.1832	.5367	3	2.3919	.7975	.0462
164	156.5587	1.1851	.5239	4	3.1894	.7977	.0616
165	157.7438	1.1869	.5108	5	3.9871	.7980	.0770
166	158.9307	1.1887	.4977	6	4.7851	.7982	.0923
167	160.1194	1.1903	.4843	7	5.5833	.7987	.1077
168	161.3097	1.1920	.4709	8	6.3820	.7990	.1229
169	162.5017	1.1935	.4574	9	7.1810	.7995	.1382
170	163.6952	1.1952	.4439	10	7.9805	.7999	.1534
171	164.8904	1.1966	.4301	11	8.7804	.8005	.1686
172	166.0870	1.1981	.4163	12	9.5809	.8011	.1838
173	167.2851	1.1995	.4023	13	10.3820	.8018	.1989
174	168.4846	1.2009	.3883	14	11.1838	.8025	.2140
175	169.6855	1.2022	.3741	15	11.9863	.8032	.2289
176	170.8877	1.2034	.3599	16	12.7895	.8039	.2439
177	172.0911	1.2047	.3456	17	13.5934	.8049	.2588
178	173.2958	1.2058	.3311	18	14.3983	.8057	.2736
179	174.5016	1.2069	.3167	19	15.2040	.8066	.2884
180	175.7085	1.2080	.3021	20	16.0106	.8077	.3031
181	176.9165	1.2090	.2875	21	16.8183	.8086	.3177
182	178.1255	1.2100	.2728	22	17.6269	.8098	.3323
183	179.3355	1.2108	.2579	23	18.4367	.8109	.3467
184	180.5463	1.2117	.2432	24	19.2476	.8120	.3610
185	181.7580	1.2126	.2283	25	20.0596	.8133	.3753
186	182.9706	1.2132	.2132	26	20.8729	.8145	.3895
187	184.1838	1.2140	.1982	27	21.6874	.8159	.4036
188	185.3978	1.2145	.1831	28	22.5033	.8172	.4176
189	186.6123	1.2152	.1681	29	23.3205	.8186	.4314
190	187.8275	1.2157	.1530	30	24.1391	.8200	.4452
191	189.0432	1.2162	.1378	31	24.9591	.8215	.4589
192	190.2594	1.2167	.1226	32	25.7806	.8231	.4725
193	191.4761	1.2170	.1072	33	26.6037	.8247	.4859
194	192.6931	1.2173	.0920	34	27.4284	.8262	.4992
195	193.9104	1.2176	.0767	35	28.2546	.8280	.5125
196	195.1280	1.2178	.0614	36	29.0826	.8296	.5255
197	196.3458	1.2180	.0461	37	29.9122	.8314	.5385
198	197.5638	1.2181	.0307	38	30.7436	.8332	.5513
199	198.7819	1.2181	.0153	39	31.5768	.8350	.5639
200	200.0000	1.2181	.0000	40	32.4118	.8369	.5765

$e = 87^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	32.4118	.8369	.5765	80	67.7220	.9389	.9328
41	33.2487	.8388	.5888	81	68.6609	.9419	.9374
42	34.0875	.8407	.6011	82	69.6028	.9449	.9418
43	34.9282	.8428	.6132	83	70.5477	.9480	.9460
44	35.7710	.8447	.6251	84	71.4957	.9512	.9500
45	36.6157	.8469	.6370	85	72.4469	.9542	.9536
46	37.4626	.8489	.6486	86	73.4011	.9573	.9571
47	38.3115	.8511	.6601	87	74.3584	.9604	.9604
48	39.1626	.8533	.6714	88	75.3188	.9636	.9634
49	40.0159	.8555	.6825	89	76.2824	.9667	.9662
50	40.8714	.8577	.6935	90	77.2491	.9699	.9687
51	41.7291	.8600	.7043	91	78.2190	.9730	.9709
52	42.5891	.8624	.7150	92	79.1920	.9761	.9730
53	43.4515	.8647	.7254	93	80.1681	.9794	.9749
54	44.3162	.8671	.7357	94	81.1475	.9825	.9764
55	45.1833	.8695	.7458	95	82.1300	.9856	.9777
56	46.0528	.8720	.7557	96	83.1156	.9889	.9789
57	46.9248	.8744	.7654	97	84.1045	.9920	.9797
58	47.7992	.8770	.7750	98	85.0965	.9953	.9803
59	48.6762	.8795	.7843	99	86.0918	.9984	.9806
60	49.5557	.8821	.7935	100	87.0902	1.0016	.9807
61	50.4378	.8847	.8024	101	88.0918	1.0047	.9806
62	51.3225	.8874	.8112	102	89.0965	1.0080	.9803
63	52.2099	.8900	.8197	103	90.1045	1.0111	.9797
64	53.0999	.8927	.8281	104	91.1156	1.0144	.9789
65	53.9926	.8954	.8362	105	92.1300	1.0175	.9777
66	54.8880	.8981	.8442	106	93.1475	1.0206	.9764
67	55.7861	.9009	.8519	107	94.1681	1.0239	.9749
68	56.6870	.9037	.8595	108	95.1920	1.0270	.9730
69	57.5907	.9065	.8668	109	96.2190	1.0301	.9709
70	58.4972	.9094	.8739	110	97.2491	1.0333	.9687
71	59.4066	.9122	.8808	111	98.2824	1.0364	.9662
72	60.3188	.9151	.8875	112	99.3188	1.0396	.9634
73	61.2339	.9180	.8939	113	100.3584	1.0427	.9604
74	62.1519	.9210	.9001	114	101.4011	1.0458	.9571
75	63.0729	.9238	.9061	115	102.4469	1.0488	.9536
76	63.9967	.9269	.9119	116	103.4957	1.0520	.9500
77	64.9236	.9298	.9174	117	104.5477	1.0551	.9460
78	65.8534	.9328	.9228	118	105.6028	1.0581	.9418
79	66.7862	.9358	.9279	119	106.6609	1.0611	.9374
80	67.7220	.9389	.9328	120	107.7220	1.0642	.9328



$e = 87^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	107.7220	1.0642	.9328	160	152.4118	1.1650	.5765
121	108.7862	1.0672	.9279	161	153.5768	1.1668	.5639
122	109.8534	1.0702	.9228	162	154.7436	1.1686	.5513
123	110.9236	1.0731	.9174	163	155.9122	1.1704	.5385
124	111.9967	1.0762	.9119	164	157.0826	1.1720	.5255
125	113.0729	1.0790	.9061	165	158.2546	1.1738	.5125
126	114.1519	1.0820	.9001	166	159.4284	1.1753	.4992
127	115.2339	1.0849	.8939	167	160.6037	1.1769	.4859
128	116.3188	1.0878	.8875	168	161.7806	1.1785	.4725
129	117.4066	1.0906	.8808	169	162.9591	1.1800	.4589
130	118.4972	1.0935	.8739	170	164.1391	1.1814	.4452
131	119.5907	1.0963	.8668	171	165.3205	1.1828	.4314
132	120.6870	1.0991	.8595	172	166.5033	1.1841	.4176
133	121.7861	1.1019	.8519	173	167.6874	1.1855	.4036
134	122.8880	1.1046	.8442	174	168.8729	1.1867	.3895
135	123.9926	1.1073	.8362	175	170.0596	1.1880	.3753
136	125.0999	1.1100	.8281	176	171.2476	1.1891	.3610
137	126.2099	1.1126	.8197	177	172.4367	1.1902	.3467
138	127.3225	1.1153	.8112	178	173.6269	1.1914	.3323
139	128.4378	1.1179	.8024	179	174.8183	1.1923	.3177
140	129.5557	1.1205	.7935	180	176.0106	1.1934	.3031
141	130.6762	1.1230	.7843	181	177.2040	1.1943	.2884
142	131.7992	1.1256	.7750	182	178.3983	1.1951	.2736
143	132.9248	1.1280	.7654	183	179.5934	1.1961	.2588
144	134.0528	1.1305	.7557	184	180.7895	1.1968	.2439
145	135.1833	1.1329	.7458	185	181.9863	1.1975	.2289
146	136.3162	1.1353	.7357	186	183.1838	1.1982	.2140
147	137.4515	1.1376	.7254	187	184.3820	1.1989	.1989
148	138.5891	1.1400	.7150	188	185.5809	1.1995	.1838
149	139.7291	1.1423	.7043	189	186.7804	1.2001	.1686
150	140.8714	1.1445	.6935	190	187.9805	1.2005	.1534
151	142.0159	1.1467	.6825	191	189.1810	1.2010	.1382
152	143.1626	1.1489	.6714	192	190.3820	1.2013	.1229
153	144.3115	1.1511	.6601	193	191.5833	1.2018	.1077
154	145.4626	1.1531	.6486	194	192.7851	1.2020	.0923
155	146.6157	1.1553	.6370	195	193.9871	1.2023	.0770
156	147.7710	1.1572	.6251	196	195.1894	1.2025	.0616
157	148.9282	1.1593	.6132	197	196.3919	1.2026	.0462
158	150.0875	1.1612	.6011	198	197.5945	1.2027	.0308
159	151.2487	1.1631	.5888	199	198.7972	1.2028	.0154
160	152.4118	1.1650	.5765	200	200.0000	1.2028	.0000

$e = 88^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.8126	.0000	40	32.9883	.8492	.5782
1	.8126	.8127	.0155	41	33.8375	.8511	.5907
2	1.6253	.8128	.0309	42	34.6886	.8528	.6029
3	2.4381	.8129	.0463	43	35.5414	.8547	.6151
4	3.2510	.8131	.0617	44	36.3961	.8566	.6271
5	4.0641	.8133	.0771	45	37.2527	.8585	.6389
6	4.8774	.8136	.0926	46	38.1112	.8604	.6505
7	5.6910	.8139	.1079	47	38.9716	.8624	.6620
8	6.5049	.8143	.1233	48	39.8340	.8644	.6734
9	7.3192	.8147	.1386	49	40.6984	.8665	.6846
10	8.1339	.8151	.1539	50	41.5649	.8685	.6956
11	8.9490	.8157	.1692	51	42.4334	.8707	.7065
12	9.7647	.8162	.1843	52	43.3041	.8728	.7171
13	10.5809	.8169	.1995	53	44.1769	.8750	.7276
14	11.3978	.8174	.2145	54	45.0519	.8772	.7379
15	12.2152	.8182	.2297	55	45.9291	.8794	.7480
16	13.0334	.8188	.2446	56	46.8085	.8817	.7580
17	13.8522	.8197	.2596	57	47.6902	.8840	.7677
18	14.6719	.8205	.2744	58	48.5742	.8863	.7773
19	15.4924	.8213	.2892	59	49.4605	.8887	.7867
20	16.3137	.8223	.3040	60	50.3492	.8910	.7958
21	17.1360	.8232	.3186	61	51.2402	.8935	.8049
22	17.9592	.8242	.3332	62	52.1337	.8959	.8136
23	18.7834	.8252	.3477	63	53.0296	.8984	.8222
24	19.6086	.8263	.3621	64	53.9280	.9008	.8305
25	20.4349	.8275	.3765	65	54.8288	.9034	.8388
26	21.2624	.8286	.3907	66	55.7322	.9058	.8467
27	22.0910	.8299	.4048	67	56.6380	.9085	.8545
28	22.9209	.8310	.4188	68	57.5465	.9110	.8620
29	23.7519	.8324	.4328	69	58.4575	.9136	.8694
30	24.5843	.8337	.4466	70	59.3711	.9163	.8765
31	25.4180	.8351	.4603	71	60.2874	.9189	.8834
32	26.2531	.8365	.4739	72	61.2063	.9215	.8901
33	27.0896	.8380	.4874	73	62.1278	.9242	.8966
34	27.9276	.8395	.5008	74	63.0520	.9270	.9029
35	28.7671	.8410	.5140	75	63.9790	.9296	.9088
36	29.6081	.8426	.5271	76	64.9086	.9324	.9147
37	30.4507	.8442	.5401	77	65.8410	.9352	.9202
38	31.2949	.8458	.5529	78	66.7762	.9379	.9255
39	32.1407	.8476	.5657	79	67.7141	.9407	.9307
40	32.9883	.8492	.5782	80	68.6548	.9435	.9356

$e = 88^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	68.6548	.9435	.9356	120	108.6548	1.0593	.9356
81	69.5983	.9463	.9402	121	109.7141	1.0621	.9307
82	70.5446	.9491	.9447	122	110.7762	1.0648	.9255
83	71.4937	.9520	.9489	123	111.8410	1.0676	.9202
84	72.4457	.9548	.9528	124	112.9086	1.0704	.9147
85	73.4005	.9577	.9566	125	113.9790	1.0730	.9088
86	74.3582	.9606	.9601	126	115.0520	1.0758	.9029
87	75.3188	.9634	.9633	127	116.1278	1.0785	.8966
88	76.2822	.9664	.9663	128	117.2063	1.0811	.8901
89	77.2486	.9692	.9690	129	118.2874	1.0837	.8834
90	78.2178	.9721	.9716	130	119.3711	1.0864	.8765
91	79.1899	.9751	.9739	131	120.4575	1.0890	.8694
92	80.1650	.9780	.9760	132	121.5465	1.0915	.8620
93	81.1430	.9809	.9778	133	122.6380	1.0942	.8545
94	82.1239	.9838	.9793	134	123.7322	1.0966	.8467
95	83.1077	.9868	.9807	135	124.8288	1.0992	.8388
96	84.0945	.9897	.9818	136	125.9280	1.1016	.8305
97	85.0842	.9926	.9826	137	127.0296	1.1041	.8222
98	86.0768	.9956	.9833	138	128.1337	1.1065	.8136
99	87.0724	.9985	.9836	139	129.2402	1.1090	.8049
100	88.0709	1.0015	.9838	140	130.3492	1.1113	.7958
101	89.0724	1.0044	.9836	141	131.4605	1.1137	.7867
102	90.0768	1.0074	.9833	142	132.5742	1.1160	.7773
103	91.0842	1.0103	.9826	143	133.6902	1.1183	.7677
104	92.0945	1.0132	.9818	144	134.8085	1.1206	.7580
105	93.1077	1.0162	.9807	145	135.9291	1.1228	.7480
106	94.1239	1.0191	.9793	146	137.0519	1.1250	.7379
107	95.1430	1.0220	.9778	147	138.1769	1.1272	.7276
108	96.1650	1.0249	.9760	148	139.3041	1.1293	.7171
109	97.1899	1.0279	.9739	149	140.4334	1.1315	.7065
110	98.2178	1.0308	.9716	150	141.5649	1.1335	.6956
111	99.2486	1.0336	.9690	151	142.6984	1.1356	.6846
112	100.2822	1.0366	.9663	152	143.8340	1.1376	.6734
113	101.3188	1.0394	.9633	153	144.9716	1.1396	.6620
114	102.3582	1.0423	.9601	154	146.1112	1.1415	.6505
115	103.4005	1.0452	.9566	155	147.2527	1.1434	.6389
116	104.4457	1.0480	.9528	156	148.3961	1.1453	.6271
117	105.4937	1.0509	.9489	157	149.5414	1.1472	.6151
118	106.5446	1.0537	.9447	158	150.6886	1.1489	.6029
119	107.5983	1.0565	.9402	159	151.8375	1.1508	.5907
120	108.6548	1.0593	.9356	160	152.9883	1.1524	.5782

$e = 88^c$				$e = 89^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	152.9883	1.1524	.5782	0	.0000	.8281	.0000
161	154.1407	1.1542	.5657	1	.8281	.8281	.0155
162	155.2949	1.1558	.5529	2	1.6562	.8282	.0310
163	156.4507	1.1574	.5401	3	2.4844	.8283	.0465
164	157.6081	1.1590	.5271	4	3.3127	.8285	.0620
165	158.7671	1.1605	.5140	5	4.1412	.8288	.0774
166	159.9276	1.1620	.5008	6	4.9700	.8289	.0928
167	161.0896	1.1635	.4874	7	5.7989	.8293	.1083
168	162.2531	1.1649	.4739	8	6.6282	.8296	.1236
169	163.4180	1.1663	.4603	9	7.4578	.8300	.1390
170	164.5843	1.1676	.4466	10	8.2878	.8304	.1543
171	165.7519	1.1690	.4328	11	9.1182	.8308	.1696
172	166.9209	1.1701	.4188	12	9.9490	.8314	.1849
173	168.0910	1.1714	.4048	13	10.7804	.8319	.2001
174	169.2624	1.1725	.3907	14	11.6123	.8326	.2152
175	170.4349	1.1737	.3765	15	12.4449	.8331	.2302
176	171.6086	1.1748	.3621	16	13.2780	.8338	.2453
177	172.7834	1.1758	.3477	17	14.1118	.8345	.2603
178	173.9592	1.1768	.3332	18	14.9463	.8353	.2752
179	175.1360	1.1777	.3186	19	15.7816	.8361	.2901
180	176.3137	1.1787	.3040	20	16.6177	.8369	.3048
181	177.4924	1.1795	.2892	21	17.4546	.8378	.3195
182	178.6719	1.1803	.2744	22	18.2924	.8387	.3341
183	179.8522	1.1812	.2596	23	19.1311	.8396	.3487
184	181.0334	1.1818	.2446	24	19.9707	.8407	.3632
185	182.2152	1.1826	.2297	25	20.8114	.8417	.3775
186	183.3978	1.1831	.2145	26	21.6531	.8427	.3917
187	184.5809	1.1838	.1995	27	22.4958	.8439	.4060
188	185.7647	1.1843	.1843	28	23.3397	.8450	.4200
189	186.9490	1.1849	.1692	29	24.1847	.8462	.4340
190	188.1339	1.1853	.1539	30	25.0309	.8474	.4478
191	189.3192	1.1857	.1386	31	25.8783	.8487	.4616
192	190.5049	1.1861	.1233	32	26.7270	.8500	.4753
193	191.6910	1.1864	.1079	33	27.5770	.8514	.4888
194	192.8774	1.1867	.0926	34	28.4284	.8527	.5021
195	194.0641	1.1869	.0771	35	29.2811	.8541	.5154
196	195.2510	1.1871	.0617	36	30.1352	.8556	.5285
197	196.4381	1.1872	.0463	37	30.9908	.8570	.5415
198	197.6253	1.1873	.0309	38	31.8478	.8586	.5545
199	198.8126	1.1874	.0155	39	32.7064	.8601	.5672
200	200.0000	1.1874	.0000	40	33.5665	.8617	.5798

$e = 89^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	33.5665	.8617	.5798	80	69.5904	.9481	.9381
41	34.4282	.8633	.5923	81	70.5385	.9508	.9428
42	35.2915	.8650	.6046	82	71.4893	.9533	.9472
43	36.1565	.8667	.6168	83	72.4426	.9559	.9514
44	37.0232	.8684	.6287	84	73.3985	.9586	.9555
45	37.8916	.8701	.6406	85	74.3571	.9612	.9591
46	38.7617	.8719	.6523	86	75.3183	.9638	.9626
47	39.6336	.8738	.6639	87	76.2821	.9664	.9659
48	40.5074	.8756	.6752	88	77.2485	.9691	.9690
49	41.3830	.8775	.6865	89	78.2176	.9718	.9718
50	42.2605	.8794	.6975	90	79.1894	.9744	.9743
51	43.1399	.8813	.7083	91	80.1638	.9772	.9766
52	44.0212	.8833	.7191	92	81.1410	.9798	.9786
53	44.9045	.8853	.7296	93	82.1208	.9824	.9804
54	45.7898	.8873	.7399	94	83.1032	.9852	.9821
55	46.6771	.8894	.7501	95	84.0884	.9879	.9834
56	47.5665	.8914	.7600	96	85.0763	.9905	.9844
57	48.4579	.8936	.7699	97	86.0668	.9933	.9853
58	49.3515	.8957	.7794	98	87.0601	.9959	.9859
59	50.2472	.8978	.7888	99	88.0560	.9987	.9863
60	51.1450	.9001	.7981	100	89.0547	1.0013	.9864
61	52.0451	.9022	.8070	101	90.0560	1.0041	.9863
62	52.9473	.9045	.8159	102	91.0601	1.0067	.9859
63	53.8518	.9067	.8245	103	92.0668	1.0095	.9853
64	54.7585	.9091	.8329	104	93.0763	1.0121	.9844
65	55.6676	.9113	.8410	105	94.0884	1.0148	.9834
66	56.5789	.9136	.8490	106	95.1032	1.0176	.9821
67	57.4925	.9160	.8569	107	96.1208	1.0202	.9804
68	58.4085	.9184	.8644	108	97.1410	1.0228	.9786
69	59.3269	.9207	.8717	109	98.1638	1.0256	.9766
70	60.2476	.9232	.8789	110	99.1894	1.0282	.9743
71	61.1708	.9256	.8858	111	100.2176	1.0309	.9718
72	62.0964	.9280	.8925	112	101.2485	1.0336	.9690
73	63.0244	.9305	.8990	113	102.2821	1.0362	.9659
74	63.9549	.9329	.9052	114	103.3183	1.0388	.9626
75	64.8878	.9355	.9114	115	104.3571	1.0414	.9591
76	65.8233	.9379	.9171	116	105.3985	1.0441	.9555
77	66.7612	.9405	.9228	117	106.4426	1.0467	.9514
78	67.7017	.9431	.9281	118	107.4893	1.0492	.9472
79	68.6448	.9456	.9332	119	108.5385	1.0519	.9428
80	69.5904	.9481	.9381	120	109.5904	1.0544	.9381

$e = 89^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	109.5904	1.0544	.9381	160	153.5665	1.1399	.5798
121	110.6448	1.0569	.9332	161	154.7064	1.1414	.5672
122	111.7017	1.0595	.9281	162	155.8478	1.1430	.5545
123	112.7612	1.0621	.9228	163	156.9908	1.1444	.5415
124	113.8233	1.0645	.9171	164	158.1352	1.1459	.5285
125	114.8878	1.0671	.9114	165	159.2811	1.1473	.5154
126	115.9549	1.0695	.9052	166	160.4284	1.1486	.5021
127	117.0244	1.0720	.8990	167	161.5770	1.1500	.4888
128	118.0964	1.0744	.8925	168	162.7270	1.1513	.4753
129	119.1708	1.0768	.8858	169	163.8783	1.1526	.4616
130	120.2476	1.0793	.8789	170	165.0309	1.1538	.4478
131	121.3269	1.0816	.8717	171	166.1847	1.1550	.4340
132	122.4085	1.0840	.8644	172	167.3397	1.1561	.4200
133	123.4925	1.0864	.8569	173	168.4958	1.1573	.4060
134	124.5789	1.0887	.8490	174	169.6531	1.1583	.3917
135	125.6676	1.0909	.8410	175	170.8114	1.1593	.3775
136	126.7585	1.0933	.8329	176	171.9707	1.1604	.3632
137	127.8518	1.0955	.8245	177	173.1311	1.1613	.3487
138	128.9473	1.0978	.8159	178	174.2924	1.1622	.3341
139	130.0451	1.0999	.8070	179	175.4546	1.1631	.3195
140	131.1450	1.1022	.7981	180	176.6177	1.1639	.3048
141	132.2472	1.1043	.7888	181	177.7816	1.1647	.2901
142	133.3515	1.1064	.7794	182	178.9463	1.1655	.2752
143	134.4579	1.1086	.7699	183	180.1118	1.1662	.2603
144	135.5665	1.1106	.7600	184	181.2780	1.1669	.2453
145	136.6771	1.1127	.7501	185	182.4449	1.1674	.2302
146	137.7898	1.1147	.7399	186	183.6123	1.1681	.2152
147	138.9045	1.1167	.7296	187	184.7804	1.1686	.2001
148	140.0212	1.1187	.7191	188	185.9490	1.1692	.1849
149	141.1399	1.1206	.7083	189	187.1182	1.1696	.1696
150	142.2605	1.1225	.6975	190	188.2878	1.1700	.1543
151	143.3830	1.1244	.6865	191	189.4578	1.1704	.1390
152	144.5074	1.1262	.6752	192	190.6282	1.1707	.1236
153	145.6336	1.1281	.6639	193	191.7989	1.1711	.1083
154	146.7617	1.1299	.6523	194	192.9700	1.1712	.0928
155	147.8916	1.1316	.6406	195	194.1412	1.1715	.0774
156	149.0232	1.1333	.6287	196	195.3127	1.1717	.0620
157	150.1565	1.1350	.6168	197	196.4844	1.1718	.0465
158	151.2915	1.1367	.6046	198	197.6562	1.1719	.0310
159	152.4282	1.1383	.5923	199	198.8281	1.1719	.0155
160	153.5665	1.1399	.5798	200	200.0000	1.1719	.0000

$e = 90^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.8436	.0000	40	34.1463	.8742	.5812
1	.8436	.8436	.0155	41	35.0205	.8756	.5937
2	1.6872	.8437	.0310	42	35.8961	.8772	.6061
3	2.5309	.8438	.0466	43	36.7733	.8786	.6182
4	3.3747	.8439	.0621	44	37.6519	.8803	.6304
5	4.2186	.8442	.0776	45	38.5322	.8818	.6422
6	5.0628	.8444	.0930	46	39.4140	.8835	.6540
7	5.9072	.8446	.1085	47	40.2975	.8851	.6655
8	6.7518	.8450	.1240	48	41.1826	.8869	.6770
9	7.5968	.8453	.1393	49	42.0695	.8885	.6881
10	8.4421	.8457	.1547	50	42.9580	.8902	.6992
11	9.2878	.8461	.1700	51	43.8482	.8921	.7102
12	10.1339	.8466	.1853	52	44.7403	.8938	.7208
13	10.9805	.8470	.2005	53	45.6341	.8956	.7314
14	11.8275	.8476	.2157	54	46.5297	.8975	.7418
15	12.6751	.8482	.2309	55	47.4272	.8993	.7519
16	13.5233	.8488	.2459	56	48.3265	.9013	.7620
17	14.3721	.8494	.2609	57	49.2278	.9031	.7717
18	15.2215	.8502	.2759	58	50.1309	.9051	.7814
19	16.0717	.8508	.2907	59	51.0360	.9071	.7908
20	16.9225	.8516	.3056	60	51.9431	.9090	.8000
21	17.7741	.8524	.3203	61	52.8521	.9111	.8091
22	18.6265	.8533	.3350	62	53.7632	.9131	.8178
23	19.4798	.8541	.3495	63	54.6763	.9151	.8265
24	20.3339	.8550	.3640	64	55.5914	.9172	.8349
25	21.1889	.8559	.3784	65	56.5086	.9193	.8432
26	22.0448	.8570	.3928	66	57.4279	.9215	.8512
27	22.9018	.8579	.4069	67	58.3494	.9235	.8589
28	23.7597	.8590	.4210	68	59.2729	.9257	.8666
29	24.6187	.8600	.4350	69	60.1986	.9279	.8740
30	25.4787	.8612	.4490	70	61.1265	.9301	.8811
31	26.3399	.8624	.4627	71	62.0566	.9323	.8880
32	27.2023	.8635	.4763	72	62.9889	.9345	.8948
33	28.0658	.8647	.4899	73	63.9234	.9367	.9013
34	28.9305	.8660	.5034	74	64.8601	.9391	.9076
35	29.7965	.8672	.5167	75	65.7992	.9412	.9136
36	30.6637	.8686	.5299	76	66.7404	.9436	.9195
37	31.5323	.8700	.5429	77	67.6840	.9458	.9250
38	32.4023	.8713	.5558	78	68.6298	.9482	.9305
39	33.2736	.8727	.5686	79	69.5780	.9505	.9356
40	34.1463	.8742	.5812	80	70.5285	.9528	.9405

$e = 90^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	70.5285	.9528	.9405	120	110.5285	1.0495	.9405
81	71.4813	.9552	.9452	121	111.5780	1.0518	.9356
82	72.4365	.9575	.9496	122	112.6298	1.0542	.9305
83	73.3940	.9600	.9539	123	113.6840	1.0564	.9250
84	74.3540	.9622	.9578	124	114.7404	1.0588	.9195
85	75.3162	.9647	.9616	125	115.7992	1.0609	.9136
86	76.2809	.9671	.9651	126	116.8601	1.0633	.9076
87	77.2480	.9695	.9683	127	117.9234	1.0655	.9013
88	78.2175	.9719	.9713	128	118.9889	1.0677	.8948
89	79.1894	.9743	.9741	129	120.0566	1.0699	.8880
90	80.1637	.9767	.9767	130	121.1265	1.0721	.8811
91	81.1404	.9792	.9790	131	122.1986	1.0743	.8740
92	82.1196	.9816	.9811	132	123.2729	1.0765	.8666
93	83.1012	.9841	.9829	133	124.3494	1.0785	.8589
94	84.0853	.9865	.9845	134	125.4279	1.0807	.8512
95	85.0718	.9889	.9858	135	126.5086	1.0828	.8432
96	86.0607	.9914	.9869	136	127.5914	1.0849	.8349
97	87.0521	.9939	.9878	137	128.6763	1.0869	.8265
98	88.0460	.9963	.9884	138	129.7632	1.0889	.8178
99	89.0423	.9988	.9888	139	130.8521	1.0910	.8091
100	90.0411	1.0012	.9888	140	131.9431	1.0929	.8000
101	91.0423	1.0037	.9888	141	133.0360	1.0949	.7908
102	92.0460	1.0061	.9884	142	134.1309	1.0969	.7814
103	93.0521	1.0086	.9878	143	135.2278	1.0987	.7717
104	94.0607	1.0111	.9869	144	136.3265	1.1007	.7620
105	95.0718	1.0135	.9858	145	137.4272	1.1025	.7519
106	96.0853	1.0159	.9845	146	138.5297	1.1044	.7418
107	97.1012	1.0184	.9829	147	139.6341	1.1062	.7314
108	98.1196	1.0208	.9811	148	140.7403	1.1079	.7208
109	99.1404	1.0233	.9790	149	141.8482	1.1098	.7102
110	100.1637	1.0257	.9767	150	142.9580	1.1115	.6992
111	101.1894	1.0281	.9741	151	144.0695	1.1131	.6881
112	102.2175	1.0305	.9713	152	145.1826	1.1149	.6770
113	103.2480	1.0329	.9683	153	146.2975	1.1165	.6655
114	104.2809	1.0353	.9651	154	147.4140	1.1182	.6540
115	105.3162	1.0378	.9616	155	148.5322	1.1197	.6422
116	106.3540	1.0400	.9578	156	149.6519	1.1214	.6304
117	107.3940	1.0425	.9539	157	150.7733	1.1228	.6182
118	108.4365	1.0448	.9496	158	151.8961	1.1244	.6061
119	109.4813	1.0472	.9452	159	153.0205	1.1258	.5937
120	110.5285	1.0495	.9405	160	154.1463	1.1273	.5812



$e = 90^{\circ}$				$e = 91^{\circ}$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	154.1463	1.1273	.5812	0	.0000	.8591	.0000
161	155.2736	1.1287	.5686	1	.8591	.8591	.0156
162	156.4023	1.1300	.5558	2	1.7182	.8593	.0312
163	157.5323	1.1314	.5429	3	2.5775	.8593	.0466
164	158.6637	1.1328	.5299	4	3.4368	.8594	.0622
165	159.7965	1.1340	.5167	5	4.2962	.8596	.0778
166	160.9305	1.1353	.5034	6	5.1558	.8599	.0933
167	162.0658	1.1365	.4899	7	6.0157	.8601	.1087
168	163.2023	1.1376	.4763	8	6.8758	.8603	.1242
169	164.3399	1.1388	.4627	9	7.7361	.8607	.1397
170	165.4787	1.1400	.4490	10	8.5968	.8610	.1550
171	166.6187	1.1410	.4350	11	9.4578	.8614	.1704
172	167.7597	1.1421	.4210	12	10.3192	.8618	.1857
173	168.9018	1.1430	.4069	13	11.1810	.8622	.2010
174	170.0448	1.1441	.3928	14	12.0432	.8628	.2162
175	171.1889	1.1450	.3784	15	12.9060	.8632	.2313
176	172.3339	1.1459	.3640	16	13.7692	.8638	.2465
177	173.4798	1.1467	.3495	17	14.6330	.8644	.2616
178	174.6265	1.1476	.3350	18	15.4974	.8650	.2765
179	175.7741	1.1484	.3203	19	16.3624	.8657	.2915
180	176.9225	1.1492	.3056	20	17.2281	.8663	.3063
181	178.0717	1.1498	.2907	21	18.0944	.8671	.3211
182	179.2215	1.1506	.2759	22	18.9615	.8678	.3357
183	180.3721	1.1512	.2609	23	19.8293	.8686	.3503
184	181.5233	1.1518	.2459	24	20.6979	.8694	.3648
185	182.6751	1.1524	.2309	25	21.5673	.8703	.3793
186	183.8275	1.1530	.2157	26	22.4376	.8711	.3936
187	184.9805	1.1534	.2005	27	23.3087	.8720	.4078
188	186.1339	1.1539	.1853	28	24.1807	.8730	.4220
189	187.2878	1.1543	.1700	29	25.0537	.8740	.4360
190	188.4421	1.1547	.1547	30	25.9277	.8749	.4499
191	189.5968	1.1550	.1393	31	26.8026	.8760	.4638
192	190.7518	1.1554	.1240	32	27.6786	.8771	.4775
193	191.9072	1.1556	.1085	33	28.5557	.8782	.4911
194	193.0628	1.1558	.0930	34	29.4339	.8793	.5045
195	194.2186	1.1561	.0776	35	30.3132	.8804	.5178
196	195.3747	1.1562	.0621	36	31.1936	.8816	.5311
197	196.5309	1.1563	.0466	37	32.0752	.8829	.5442
198	197.6872	1.1564	.0310	38	32.9581	.8841	.5571
199	198.8436	1.1564	.0155	39	33.8422	.8853	.5699
200	200.0000	1.1564	.0000	40	34.7275	.8867	.5826

$e = 91^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	34.7275	.8867	.5826	80	71.4690	.9575	.9426
41	35.6142	.8880	.5951	81	72.4265	.9596	.9473
42	36.5022	.8893	.6074	82	73.3861	.9618	.9518
43	37.3915	.8908	.6197	83	74.3479	.9639	.9559
44	38.2823	.8921	.6317	84	75.3118	.9660	.9599
45	39.1744	.8936	.6437	85	76.2778	.9682	.9637
46	40.0680	.8950	.6554	86	77.2460	.9703	.9672
47	40.9630	.8966	.6671	87	78.2163	.9725	.9705
48	41.8596	.8980	.6784	88	79.1888	.9747	.9736
49	42.7576	.8996	.6897	89	80.1635	.9769	.9764
50	43.6572	.9012	.7008	90	81.1404	.9790	.9789
51	44.5584	.9027	.7117	91	82.1194	.9813	.9812
52	45.4611	.9044	.7225	92	83.1007	.9834	.9833
53	46.3655	.9060	.7330	93	84.0841	.9857	.9851
54	47.2715	.9076	.7434	94	85.0698	.9878	.9866
55	48.1791	.9094	.7537	95	86.0576	.9900	.9880
56	49.0885	.9110	.7636	96	87.0476	.9923	.9892
57	49.9995	.9128	.7735	97	88.0399	.9945	.9900
58	50.9123	.9145	.7831	98	89.0344	.9967	.9906
59	51.8268	.9163	.7925	99	90.0311	.9988	.9909
60	52.7431	.9181	.8018	100	91.0299	1.0012	.9911
61	53.6612	.9198	.8108	101	92.0311	1.0033	.9909
62	54.5810	.9218	.8198	102	93.0344	1.0055	.9906
63	55.5028	.9235	.8283	103	94.0399	1.0077	.9900
64	56.4263	.9255	.8368	104	95.0476	1.0100	.9892
65	57.3518	.9273	.8450	105	96.0576	1.0122	.9880
66	58.2791	.9292	.8531	106	97.0698	1.0143	.9866
67	59.2083	.9312	.8609	107	98.0841	1.0166	.9851
68	60.1395	.9331	.8685	108	99.1007	1.0187	.9833
69	61.0726	.9350	.8759	109	100.1194	1.0210	.9812
70	62.0076	.9370	.8831	110	101.1404	1.0231	.9789
71	62.9446	.9391	.8901	111	102.1635	1.0253	.9764
72	63.8837	.9410	.8967	112	103.1888	1.0275	.9736
73	64.8247	.9430	.9032	113	104.2163	1.0297	.9705
74	65.7677	.9451	.9096	114	105.2460	1.0318	.9672
75	66.7128	.9471	.9156	115	106.2778	1.0340	.9637
76	67.6599	.9491	.9214	116	107.3118	1.0361	.9599
77	68.6090	.9513	.9271	117	108.3479	1.0382	.9559
78	69.5603	.9533	.9324	118	109.3861	1.0404	.9518
79	70.5136	.9554	.9376	119	110.4265	1.0425	.9473
80	71.4690	.9575	.9426	120	111.4690	1.0446	.9426

$e = 91^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	111.4690	1.0446	.9426	160	154.7275	1.1147	.5826
121	112.5136	1.0467	.9376	161	155.8422	1.1159	.5699
122	113.5603	1.0487	.9324	162	156.9581	1.1171	.5571
123	114.6090	1.0509	.9271	163	158.0752	1.1184	.5442
124	115.6599	1.0529	.9214	164	159.1936	1.1196	.5311
125	116.7128	1.0549	.9156	165	160.3132	1.1207	.5178
126	117.7677	1.0570	.9096	166	161.4339	1.1218	.5045
127	118.8247	1.0590	.9032	167	162.5557	1.1229	.4911
128	119.8837	1.0609	.8967	168	163.6786	1.1240	.4775
129	120.9446	1.0630	.8901	169	164.8026	1.1251	.4638
130	122.0076	1.0650	.8831	170	165.9277	1.1260	.4499
131	123.0726	1.0669	.8759	171	167.0537	1.1270	.4360
132	124.1395	1.0688	.8685	172	168.1807	1.1280	.4220
133	125.2083	1.0708	.8609	173	169.3087	1.1289	.4078
134	126.2791	1.0727	.8531	174	170.4376	1.1297	.3936
135	127.3518	1.0745	.8450	175	171.5673	1.1306	.3793
136	128.4263	1.0765	.8368	176	172.6979	1.1314	.3648
137	129.5028	1.0782	.8283	177	173.8293	1.1322	.3503
138	130.5810	1.0802	.8198	178	174.9615	1.1329	.3357
139	131.6612	1.0819	.8108	179	176.0944	1.1337	.3211
140	132.7431	1.0837	.8018	180	177.2281	1.1343	.3063
141	133.8268	1.0855	.7925	181	178.3624	1.1350	.2915
142	134.9123	1.0872	.7831	182	179.4974	1.1356	.2765
143	135.9995	1.0890	.7735	183	180.6330	1.1362	.2616
144	137.0885	1.0906	.7636	184	181.7692	1.1368	.2465
145	138.1791	1.0924	.7537	185	182.9060	1.1372	.2313
146	139.2715	1.0940	.7434	186	184.0432	1.1378	.2162
147	140.3655	1.0956	.7330	187	185.1810	1.1382	.2010
148	141.4611	1.0973	.7225	188	186.3192	1.1386	.1857
149	142.5584	1.0988	.7117	189	187.4578	1.1390	.1704
150	143.6572	1.1004	.7008	190	188.5968	1.1393	.1550
151	144.7576	1.1020	.6897	191	189.7361	1.1397	.1397
152	145.8596	1.1034	.6784	192	190.8758	1.1399	.1242
153	146.9630	1.1050	.6671	193	192.0157	1.1401	.1087
154	148.0680	1.1064	.6554	194	193.1558	1.1404	.0933
155	149.1744	1.1079	.6437	195	194.2962	1.1406	.0778
156	150.2823	1.1092	.6317	196	195.4368	1.1407	.0622
157	151.3915	1.1107	.6197	197	196.5775	1.1407	.0466
158	152.5022	1.1120	.6074	198	197.7182	1.1409	.0312
159	153.6142	1.1133	.5951	199	198.8591	1.1409	.0156
160	154.7275	1.1147	.5826	200	200.0000	1.1409	.0000

$e = 92^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.8747	.0000	40	35.3101	.8992	.5837
1	.8747	.8747	.0156	41	36.2093	.9003	.5962
2	1.7494	.8747	.0312	42	37.1096	.9016	.6087
3	2.6241	.8749	.0468	43	38.0112	.9028	.6209
4	3.4990	.8750	.0624	44	38.9140	.9041	.6330
5	4.3740	.8751	.0779	45	39.8181	.9053	.6449
6	5.2491	.8753	.0935	46	40.7234	.9067	.6567
7	6.1244	.8756	.1090	47	41.6301	.9079	.6683
8	7.0000	.8758	.1244	48	42.5380	.9093	.6798
9	7.8758	.8760	.1399	49	43.4473	.9107	.6911
10	8.7518	.8764	.1554	50	44.3580	.9121	.7022
11	9.6282	.8767	.1707	51	45.2701	.9135	.7131
12	10.5049	.8771	.1861	52	46.1836	.9149	.7239
13	11.3820	.8774	.2013	53	47.0985	.9164	.7345
14	12.2594	.8779	.2167	54	48.0149	.9179	.7449
15	13.1373	.8784	.2319	55	48.9328	.9193	.7551
16	14.0157	.8789	.2470	56	49.8521	.9209	.7652
17	14.8946	.8793	.2620	57	50.7730	.9224	.7750
18	15.7739	.8800	.2771	58	51.6954	.9239	.7847
19	16.6539	.8805	.2920	59	52.6193	.9256	.7942
20	17.5344	.8811	.3068	60	53.5449	.9271	.8034
21	18.4155	.8817	.3216	61	54.4720	.9288	.8125
22	19.2972	.8824	.3364	62	55.4008	.9303	.8213
23	20.1796	.8831	.3511	63	56.3311	.9320	.8300
24	21.0627	.8839	.3656	64	57.2631	.9337	.8385
25	21.9466	.8846	.3800	65	58.1968	.9354	.8467
26	22.8312	.8853	.3944	66	59.1322	.9370	.8547
27	23.7165	.8862	.4087	67	60.0692	.9388	.8626
28	24.6027	.8870	.4228	68	61.0080	.9405	.8702
29	25.4897	.8879	.4369	69	61.9485	.9422	.8776
30	26.3776	.8888	.4509	70	62.8907	.9440	.8848
31	27.2664	.8897	.4647	71	63.8347	.9457	.8918
32	28.1561	.8907	.4784	72	64.7804	.9475	.8986
33	29.0468	.8916	.4920	73	65.7279	.9494	.9051
34	29.9384	.8926	.5055	74	66.6773	.9511	.9114
35	30.8310	.8937	.5189	75	67.6284	.9529	.9175
36	31.7247	.8947	.5321	76	68.5813	.9548	.9234
37	32.6194	.8958	.5452	77	69.5361	.9566	.9290
38	33.5152	.8969	.5581	78	70.4927	.9585	.9344
39	34.4121	.8980	.5710	79	71.4512	.9604	.9395
40	35.3101	.8992	.5837	80	72.4116	.9622	.9444

$e = 92^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	72.4116	.9622	.9444	120	112.4116	1.0396	.9444
81	73.3738	.9641	.9491	121	113.4512	1.0415	.9395
82	74.3379	.9659	.9536	122	114.4927	1.0434	.9344
83	75.3038	.9679	.9579	123	115.5361	1.0452	.9290
84	76.2717	.9698	.9619	124	116.5813	1.0471	.9234
85	77.2415	.9717	.9656	125	117.6284	1.0489	.9175
86	78.2132	.9736	.9691	126	118.6773	1.0506	.9114
87	79.1868	.9756	.9724	127	119.7279	1.0525	.9051
88	80.1624	.9775	.9754	128	120.7804	1.0543	.8986
89	81.1399	.9794	.9782	129	121.8347	1.0560	.8918
90	82.1193	.9813	.9808	130	122.8907	1.0578	.8848
91	83.1006	.9834	.9832	131	123.9485	1.0595	.8776
92	84.0840	.9852	.9852	132	125.0080	1.0612	.8702
93	85.0692	.9872	.9871	133	126.0692	1.0630	.8626
94	86.0564	.9892	.9887	134	127.1322	1.0646	.8547
95	87.0456	.9912	.9900	135	128.1968	1.0663	.8467
96	88.0368	.9931	.9911	136	129.2631	1.0680	.8385
97	89.0299	.9951	.9920	137	130.3311	1.0697	.8300
98	90.0250	.9970	.9925	138	131.4008	1.0712	.8213
99	91.0220	.9990	.9930	139	132.4720	1.0729	.8125
100	92.0210	1.0010	.9931	140	133.5449	1.0744	.8034
101	93.0220	1.0030	.9930	141	134.6193	1.0761	.7942
102	94.0250	1.0049	.9925	142	135.6954	1.0776	.7847
103	95.0299	1.0069	.9920	143	136.7730	1.0791	.7750
104	96.0368	1.0088	.9911	144	137.8521	1.0807	.7652
105	97.0456	1.0108	.9900	145	138.9328	1.0821	.7551
106	98.0564	1.0128	.9887	146	140.0149	1.0836	.7449
107	99.0692	1.0148	.9871	147	141.0985	1.0851	.7345
108	100.0840	1.0166	.9852	148	142.1836	1.0865	.7239
109	101.1006	1.0187	.9832	149	143.2701	1.0879	.7131
110	102.1193	1.0206	.9808	150	144.3580	1.0893	.7022
111	103.1399	1.0225	.9782	151	145.4473	1.0907	.6911
112	104.1624	1.0244	.9754	152	146.5380	1.0921	.6798
113	105.1868	1.0264	.9724	153	147.6301	1.0933	.6683
114	106.2132	1.0283	.9691	154	148.7234	1.0947	.6567
115	107.2415	1.0302	.9656	155	149.8181	1.0959	.6449
116	108.2717	1.0321	.9619	156	150.9140	1.0972	.6330
117	109.3038	1.0341	.9579	157	152.0112	1.0984	.6209
118	110.3379	1.0359	.9536	158	153.1096	1.0997	.6087
119	111.3738	1.0378	.9491	159	154.2093	1.1008	.5962
120	112.4116	1.0396	.9444	160	155.3101	1.1020	.5837

$e = 92^c$				$e = 93^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	155.3101	1.1020	.5837	0	.0000	.8903	.0000
161	156.4121	1.1031	.5710	1	.8903	.8903	.0156
162	157.5152	1.1042	.5581	2	1.7806	.8903	.0312
163	158.6194	1.1053	.5452	3	2.6709	.8905	.0469
164	159.7247	1.1063	.5321	4	3.5614	.8905	.0624
165	160.8310	1.1074	.5189	5	4.4519	.8907	.0780
166	161.9384	1.1084	.5055	6	5.3426	.8908	.0936
167	163.0468	1.1093	.4920	7	6.2334	.8910	.1092
168	164.1561	1.1103	.4784	8	7.1244	.8913	.1247
169	165.2664	1.1112	.4647	9	8.0157	.8915	.1401
170	166.3776	1.1121	.4509	10	8.9072	.8917	.1556
171	167.4897	1.1130	.4369	11	9.7989	.8921	.1711
172	168.6027	1.1138	.4228	12	10.6910	.8923	.1864
173	169.7165	1.1147	.4087	13	11.5833	.8928	.2018
174	170.8312	1.1154	.3944	14	12.4761	.8931	.2170
175	171.9466	1.1161	.3800	15	13.3692	.8935	.2322
176	173.0627	1.1169	.3656	16	14.2627	.8939	.2474
177	174.1796	1.1176	.3511	17	15.1566	.8944	.2625
178	175.2972	1.1183	.3364	18	16.0510	.8949	.2775
179	176.4155	1.1189	.3216	19	16.9459	.8953	.2925
180	177.5344	1.1195	.3068	20	17.8412	.8959	.3074
181	178.6539	1.1200	.2920	21	18.7371	.8965	.3223
182	179.7739	1.1207	.2771	22	19.6336	.8971	.3370
183	180.8946	1.1211	.2620	23	20.5307	.8976	.3516
184	182.0157	1.1216	.2470	24	21.4283	.8983	.3662
185	183.1373	1.1221	.2319	25	22.3266	.8990	.3807
186	184.2594	1.1226	.2167	26	23.2256	.8996	.3950
187	185.3820	1.1229	.2013	27	24.1252	.9003	.4094
188	186.5049	1.1233	.1861	28	25.0255	.9011	.4236
189	187.6282	1.1236	.1707	29	25.9266	.9019	.4377
190	188.7518	1.1240	.1554	30	26.8285	.9026	.4516
191	189.8758	1.1242	.1399	31	27.7311	.9034	.4655
192	191.0000	1.1244	.1244	32	28.6345	.9043	.4793
193	192.1244	1.1247	.1090	33	29.5388	.9051	.4928
194	193.2491	1.1249	.0935	34	30.4439	.9060	.5064
195	194.3740	1.1250	.0779	35	31.3499	.9069	.5197
196	195.4990	1.1251	.0624	36	32.2568	.9078	.5330
197	196.6241	1.1253	.0468	37	33.1646	.9087	.5461
198	197.7494	1.1253	.0312	38	34.0733	.9098	.5592
199	198.8747	1.1253	.0156	39	34.9831	.9107	.5720
200	200.0000	1.1253	.0000	40	35.8938	.9117	.5847

$e = 93^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	35.8938	.9117	.5847	80	73.3560	.9669	.9461
41	36.8055	.9128	.5973	81	74.3229	.9686	.9508
42	37.7183	.9138	.6097	82	75.2915	.9702	.9553
43	38.6321	.9149	.6220	83	76.2617	.9719	.9595
44	39.5470	.9160	.6341	84	77.2336	.9735	.9635
45	40.4630	.9171	.6461	85	78.2071	.9752	.9673
46	41.3801	.9183	.6579	86	79.1823	.9769	.9709
47	42.2984	.9194	.6695	87	80.1592	.9786	.9742
48	43.2178	.9206	.6810	88	81.1378	.9803	.9772
49	44.1384	.9218	.6923	89	82.1181	.9820	.9800
50	45.0602	.9230	.7034	90	83.1001	.9837	.9825
51	45.9832	.9243	.7144	91	84.0838	.9854	.9848
52	46.9075	.9255	.7252	92	85.0692	.9871	.9869
53	47.8330	.9268	.7358	93	86.0563	.9888	.9888
54	48.7598	.9281	.7462	94	87.0451	.9905	.9904
55	49.6879	.9294	.7564	95	88.0356	.9923	.9917
56	50.6173	.9307	.7665	96	89.0279	.9940	.9928
57	51.5480	.9321	.7763	97	90.0219	.9956	.9936
58	52.4801	.9334	.7860	98	91.0175	.9975	.9943
59	53.4135	.9348	.7955	99	92.0150	.9991	.9946
60	54.3483	.9362	.8048	100	93.0141	1.0009	.9948
61	55.2845	.9376	.8139	101	94.0150	1.0025	.9946
62	56.2221	.9390	.8228	102	95.0175	1.0044	.9943
63	57.1611	.9405	.8315	103	96.0219	1.0060	.9936
64	58.1016	.9419	.8399	104	97.0279	1.0077	.9928
65	59.0435	.9434	.8482	105	98.0356	1.0095	.9917
66	59.9869	.9449	.8563	106	99.0451	1.0112	.9904
67	60.9318	.9464	.8641	107	100.0563	1.0129	.9888
68	61.8782	.9479	.8717	108	101.0692	1.0146	.9869
69	62.8261	.9494	.8792	109	102.0838	1.0163	.9848
70	63.7755	.9510	.8864	110	103.1001	1.0180	.9825
71	64.7265	.9525	.8933	111	104.1181	1.0197	.9800
72	65.6790	.9540	.9001	112	105.1378	1.0214	.9772
73	66.6330	.9557	.9067	113	106.1592	1.0231	.9742
74	67.5887	.9572	.9129	114	107.1823	1.0248	.9709
75	68.5459	.9588	.9190	115	108.2071	1.0265	.9673
76	69.5047	.9604	.9249	116	109.2336	1.0281	.9635
77	70.4651	.9620	.9305	117	110.2617	1.0298	.9595
78	71.4271	.9636	.9360	118	111.2915	1.0314	.9553
79	72.3907	.9653	.9412	119	112.3229	1.0331	.9508
80	73.3560	.9669	.9461	120	113.3560	1.0347	.9461

$e = 93^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	113.3560	1.0347	.9461	160	155.8938	1.0893	.5847
121	114.3907	1.0364	.9412	161	156.9831	1.0902	.5720
122	115.4271	1.0380	.9360	162	158.0733	1.0913	.5592
123	116.4651	1.0396	.9305	163	159.1646	1.0922	.5461
124	117.5047	1.0412	.9249	164	160.2568	1.0931	.5330
125	118.5459	1.0428	.9190	165	161.3499	1.0940	.5197
126	119.5887	1.0443	.9129	166	162.4439	1.0949	.5064
127	120.6330	1.0460	.9067	167	163.5388	1.0957	.4928
128	121.6790	1.0475	.9001	168	164.6345	1.0966	.4793
129	122.7265	1.0490	.8933	169	165.7311	1.0974	.4655
130	123.7755	1.0506	.8864	170	166.8285	1.0981	.4516
131	124.8261	1.0521	.8792	171	167.9266	1.0989	.4377
132	125.8782	1.0536	.8717	172	169.0255	1.0997	.4236
133	126.9318	1.0551	.8641	173	170.1252	1.1004	.4094
134	127.9869	1.0566	.8563	174	171.2256	1.1010	.3950
135	129.0435	1.0581	.8482	175	172.3266	1.1017	.3807
136	130.1016	1.0595	.8399	176	173.4283	1.1024	.3662
137	131.1611	1.0610	.8315	177	174.5307	1.1029	.3516
138	132.2221	1.0624	.8228	178	175.6336	1.1035	.3370
139	133.2845	1.0638	.8139	179	176.7371	1.1041	.3223
140	134.3483	1.0652	.8048	180	177.8412	1.1047	.3074
141	135.4135	1.0666	.7955	181	178.9459	1.1051	.2925
142	136.4801	1.0679	.7860	182	180.0510	1.1056	.2775
143	137.5480	1.0693	.7763	183	181.1566	1.1061	.2625
144	138.6173	1.0706	.7665	184	182.2627	1.1065	.2474
145	139.6879	1.0719	.7564	185	183.3692	1.1069	.2322
146	140.7598	1.0732	.7462	186	184.4761	1.1072	.2170
147	141.8330	1.0745	.7358	187	185.5833	1.1077	.2018
148	142.9075	1.0757	.7252	188	186.6910	1.1079	.1864
149	143.9832	1.0770	.7144	189	187.7989	1.1083	.1711
150	145.0602	1.0782	.7034	190	188.9072	1.1085	.1556
151	146.1384	1.0794	.6923	191	190.0157	1.1087	.1401
152	147.2178	1.0806	.6810	192	191.1244	1.1090	.1247
153	148.2984	1.0817	.6695	193	192.2334	1.1092	.1092
154	149.3801	1.0829	.6579	194	193.3426	1.1093	.0936
155	150.4630	1.0840	.6461	195	194.4519	1.1095	.0780
156	151.5470	1.0851	.6341	196	195.5614	1.1095	.0624
157	152.6321	1.0862	.6220	197	196.6709	1.1097	.0469
158	153.7183	1.0872	.6097	198	197.7806	1.1097	.0312
159	154.8055	1.0883	.5973	199	198.8903	1.1097	.0156
160	155.8938	1.0893	.5847	200	200.0000	1.1097	.0000



$e = 94^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.9059	.0000	40	36.4785	.9243	.5856
1	.9059	.9059	.0156	41	37.4028	.9252	.5982
2	1.8118	.9060	.0313	42	38.3280	.9261	.6106
3	2.7178	.9060	.0469	43	39.2541	.9270	.6229
4	3.6238	.9061	.0626	44	40.1811	.9280	.6351
5	4.5299	.9063	.0782	45	41.1091	.9289	.6470
6	5.4362	.9064	.0937	46	42.0380	.9299	.6588
7	6.3426	.9065	.1093	47	42.9679	.9309	.6705
8	7.2491	.9067	.1249	48	43.8988	.9319	.6820
9	8.1558	.9070	.1404	49	44.8307	.9329	.6933
10	9.0628	.9072	.1558	50	45.7636	.9340	.7045
11	9.9700	.9074	.1712	51	46.6976	.9351	.7155
12	10.8774	.9077	.1867	52	47.6327	.9361	.7262
13	11.7851	.9080	.2020	53	48.5688	.9372	.7368
14	12.6931	.9083	.2173	54	49.5060	.9383	.7473
15	13.6014	.9087	.2326	55	50.4443	.9395	.7576
16	14.5101	.9090	.2477	56	51.3838	.9405	.7676
17	15.4191	.9094	.2629	57	52.3243	.9418	.7776
18	16.3285	.9099	.2780	58	53.2661	.9429	.7872
19	17.2384	.9102	.2929	59	54.2090	.9441	.7967
20	18.1486	.9108	.3079	60	55.1531	.9453	.8060
21	19.0594	.9112	.3227	61	56.0984	.9465	.8151
22	19.9706	.9117	.3375	62	57.0449	.9477	.8239
23	20.8823	.9122	.3521	63	57.9926	.9489	.8327
24	21.7945	.9128	.3668	64	58.9415	.9502	.8412
25	22.7073	.9133	.3812	65	59.8917	.9515	.8495
26	23.6206	.9140	.3957	66	60.8432	.9527	.8575
27	24.5346	.9145	.4099	67	61.7959	.9540	.8654
28	25.4491	.9152	.4242	68	62.7499	.9554	.8731
29	26.3643	.9158	.4383	69	63.7053	.9566	.8804
30	27.2801	.9165	.4523	70	64.6619	.9579	.8876
31	28.1966	.9172	.4662	71	65.6198	.9593	.8947
32	29.1138	.9178	.4799	72	66.5791	.9606	.9014
33	30.0316	.9187	.4937	73	67.5397	.9619	.9080
34	30.9503	.9193	.5071	74	68.5016	.9633	.9143
35	31.8696	.9202	.5206	75	69.4649	.9647	.9205
36	32.7898	.9209	.5338	76	70.4296	.9660	.9263
37	33.7107	.9218	.5470	77	71.3956	.9675	.9320
38	34.6325	.9226	.5600	78	72.3631	.9688	.9373
39	35.5551	.9234	.5728	79	73.3319	.9702	.9425
40	36.4785	.9243	.5856	80	74.3021	.9716	.9475

$e = 94^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	74.3021	.9716	.9475	120	114.3021	1.0298	.9475
81	75.2737	.9731	.9522	121	115.3319	1.0312	.9425
82	76.2468	.9744	.9567	122	116.3631	1.0325	.9373
83	77.2212	.9759	.9610	123	117.3956	1.0340	.9320
84	78.1971	.9773	.9650	124	118.4296	1.0353	.9263
85	79.1744	.9788	.9687	125	119.4649	1.0367	.9205
86	80.1532	.9802	.9722	126	120.5016	1.0381	.9143
87	81.1334	.9816	.9755	127	121.5397	1.0394	.9080
88	82.1150	.9831	.9786	128	122.5791	1.0407	.9014
89	83.0981	.9845	.9814	129	123.6198	1.0421	.8947
90	84.0826	.9860	.9840	130	124.6619	1.0434	.8876
91	85.0686	.9875	.9864	131	125.7053	1.0446	.8804
92	86.0561	.9890	.9884	132	126.7499	1.0460	.8731
93	87.0451	.9904	.9902	133	127.7959	1.0473	.8654
94	88.0355	.9918	.9918	134	128.8432	1.0485	.8575
95	89.0273	.9934	.9932	135	129.8917	1.0498	.8495
96	90.0207	.9948	.9943	136	130.9415	1.0511	.8412
97	91.0155	.9963	.9952	137	131.9926	1.0523	.8327
98	92.0118	.9978	.9958	138	133.0449	1.0535	.8239
99	93.0096	.9993	.9962	139	134.0984	1.0547	.8151
100	94.0089	1.0007	.9962	140	135.1531	1.0559	.8060
101	95.0096	1.0022	.9962	141	136.2090	1.0571	.7967
102	96.0118	1.0037	.9958	142	137.2661	1.0582	.7872
103	97.0155	1.0052	.9952	143	138.3243	1.0595	.7776
104	98.0207	1.0066	.9943	144	139.3838	1.0605	.7676
105	99.0273	1.0082	.9932	145	140.4443	1.0617	.7576
106	100.0355	1.0096	.9918	146	141.5060	1.0628	.7473
107	101.0451	1.0110	.9902	147	142.5688	1.0639	.7368
108	102.0561	1.0125	.9884	148	143.6327	1.0649	.7262
109	103.0686	1.0140	.9864	149	144.6976	1.0660	.7155
110	104.0826	1.0155	.9840	150	145.7636	1.0671	.7045
111	105.0981	1.0169	.9814	151	146.8307	1.0681	.6933
112	106.1150	1.0184	.9786	152	147.8988	1.0691	.6820
113	107.1334	1.0198	.9755	153	148.9679	1.0701	.6705
114	108.1532	1.0212	.9722	154	150.0380	1.0711	.6588
115	109.1744	1.0227	.9687	155	151.1091	1.0720	.6470
116	110.1971	1.0241	.9650	156	152.1811	1.0730	.6351
117	111.2212	1.0256	.9610	157	153.2541	1.0739	.6229
118	112.2468	1.0269	.9567	158	154.3280	1.0748	.6106
119	113.2737	1.0284	.9522	159	155.4028	1.0757	.5982
120	114.3021	1.0298	.9475	160	156.4785	1.0766	.5856

$e = 94^c$				$e = 95^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	156.4785	1.0766	.5856	0	.0000	.9215	.0000
161	157.5551	1.0774	.5728	1	.9215	.9216	.0157
162	158.6325	1.0782	.5600	2	1.8431	.9216	.0313
163	159.7107	1.0791	.5470	3	2.7647	.9217	.0470
164	160.7898	1.0798	.5338	4	3.6864	.9217	.0626
165	161.8696	1.0807	.5206	5	4.6081	.9218	.0783
166	162.9503	1.0813	.5071	6	5.5299	.9220	.0939
167	164.0316	1.0822	.4937	7	6.4519	.9221	.1095
168	165.1138	1.0828	.4799	8	7.3740	.9222	.1250
169	166.1966	1.0835	.4662	9	8.2962	.9224	.1406
170	167.2801	1.0842	.4523	10	9.2186	.9226	.1561
171	168.3643	1.0848	.4383	11	10.1412	.9229	.1715
172	169.4491	1.0855	.4242	12	11.0641	.9230	.1869
173	170.5346	1.0860	.4099	13	11.9871	.9233	.2023
174	171.6206	1.0867	.3957	14	12.9104	.9236	.2176
175	172.7073	1.0872	.3812	15	13.8340	.9238	.2328
176	173.7945	1.0878	.3668	16	14.7578	.9242	.2481
177	174.8823	1.0883	.3521	17	15.6820	.9245	.2632
178	175.9706	1.0888	.3375	18	16.6065	.9248	.2783
179	177.0594	1.0892	.3227	19	17.5313	.9252	.2933
180	178.1486	1.0898	.3079	20	18.4565	.9256	.3082
181	179.2384	1.0901	.2929	21	19.3821	.9260	.3231
182	180.3285	1.0906	.2780	22	20.3081	.9263	.3378
183	181.4191	1.0910	.2629	23	21.2344	.9269	.3526
184	182.5101	1.0913	.2477	24	22.1613	.9272	.3672
185	183.6014	1.0917	.2326	25	23.0885	.9278	.3818
186	184.6931	1.0920	.2173	26	24.0163	.9282	.3962
187	185.7851	1.0923	.2020	27	24.9445	.9288	.4105
188	186.8774	1.0926	.1867	28	25.8733	.9293	.4247
189	187.9700	1.0928	.1712	29	26.8026	.9298	.4388
190	189.0628	1.0930	.1558	30	27.7324	.9304	.4528
191	190.1558	1.0933	.1404	31	28.6628	.9309	.4667
192	191.2491	1.0935	.1249	32	29.5937	.9316	.4806
193	192.3426	1.0936	.1093	33	30.5253	.9321	.4942
194	193.4362	1.0937	.0937	34	31.4574	.9328	.5078
195	194.5299	1.0939	.0782	35	32.3902	.9334	.5212
196	195.6238	1.0940	.0626	36	33.3236	.9341	.5345
197	196.7178	1.0940	.0469	37	34.2577	.9348	.5477
198	197.8118	1.0941	.0313	38	35.1925	.9354	.5606
199	198.9059	1.0941	.0156	39	36.1279	.9362	.5736
200	200.0000	1.0941	.0000	40	37.0641	.9369	.5863

$e = 95^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	37.0641	.9369	.5863	80	75.2496	.9763	.9487
41	38.0010	.9376	.5989	81	76.2259	.9776	.9534
42	38.9386	.9384	.6114	82	77.2035	.9787	.9579
43	39.8770	.9392	.6237	83	78.1822	.9799	.9621
44	40.8162	.9399	.6358	84	79.1621	.9810	.9661
45	41.7561	.9407	.6478	85	80.1431	.9823	.9700
46	42.6968	.9416	.6597	86	81.1254	.9835	.9735
47	43.6384	.9424	.6713	87	82.1089	.9847	.9768
48	44.5808	.9432	.6828	88	83.0936	.9859	.9798
49	45.5240	.9441	.6942	89	84.0795	.9871	.9827
50	46.4681	.9450	.7053	90	85.0666	.9884	.9852
51	47.4131	.9458	.7163	91	86.0550	.9895	.9875
52	48.3589	.9467	.7271	92	87.0445	.9908	.9897
53	49.3056	.9477	.7378	93	88.0353	.9920	.9915
54	50.2533	.9486	.7482	94	89.0273	.9932	.9931
55	51.2019	.9495	.7585	95	90.0205	.9945	.9945
56	52.1514	.9505	.7686	96	91.0150	.9957	.9955
57	53.1019	.9514	.7784	97	92.0107	.9969	.9964
58	54.0533	.9524	.7882	98	93.0076	.9982	.9970
59	55.0057	.9534	.7977	99	94.0058	.9993	.9973
60	55.9591	.9544	.8070	100	95.0051	1.0007	.9975
61	56.9135	.9553	.8161	101	96.0058	1.0018	.9973
62	57.8688	.9565	.8251	102	97.0076	1.0031	.9970
63	58.8253	.9574	.8337	103	98.0107	1.0043	.9964
64	59.7827	.9585	.8422	104	99.0150	1.0055	.9955
65	60.7412	.9595	.8505	105	100.0205	1.0068	.9945
66	61.7007	.9606	.8586	106	101.0273	1.0080	.9931
67	62.6613	.9617	.8665	107	102.0353	1.0092	.9915
68	63.6230	.9627	.8741	108	103.0445	1.0105	.9897
69	64.5857	.9638	.8816	109	104.0550	1.0116	.9875
70	65.5495	.9650	.8888	110	105.0666	1.0129	.9852
71	66.5145	.9660	.8958	111	106.0795	1.0141	.9827
72	67.4805	.9672	.9026	112	107.0936	1.0153	.9798
73	68.4477	.9682	.9091	113	108.1089	1.0165	.9768
74	69.4159	.9695	.9155	114	109.1254	1.0177	.9735
75	70.3854	.9705	.9215	115	110.1431	1.0190	.9700
76	71.3559	.9717	.9274	116	111.1621	1.0201	.9661
77	72.3276	.9728	.9331	117	112.1822	1.0213	.9621
78	73.3004	.9740	.9386	118	113.2035	1.0224	.9579
79	74.2744	.9752	.9437	119	114.2259	1.0237	.9534
80	75.2496	.9763	.9487	120	115.2496	1.0248	.9487

$e = 95^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	115.2496	1.0248	.9487	160	157.0641	1.0638	.5863
121	116.2744	1.0260	.9437	161	158.1279	1.0646	.5736
122	117.3004	1.0272	.9386	162	159.1925	1.0652	.5606
123	118.3276	1.0283	.9331	163	160.2577	1.0659	.5477
124	119.3559	1.0295	.9274	164	161.3236	1.0666	.5345
125	120.3854	1.0305	.9215	165	162.3902	1.0672	.5212
126	121.4159	1.0318	.9155	166	163.4574	1.0679	.5078
127	122.4477	1.0328	.9091	167	164.5253	1.0684	.4942
128	123.4805	1.0340	.9026	168	165.5937	1.0691	.4806
129	124.5145	1.0350	.8958	169	166.6628	1.0696	.4667
130	125.5495	1.0362	.8888	170	167.7324	1.0702	.4528
131	126.5857	1.0373	.8816	171	168.8026	1.0707	.4388
132	127.6230	1.0383	.8741	172	169.8733	1.0712	.4247
133	128.6613	1.0394	.8665	173	170.9445	1.0718	.4105
134	129.7007	1.0405	.8586	174	172.0163	1.0722	.3962
135	130.7412	1.0415	.8505	175	173.0885	1.0728	.3818
136	131.7827	1.0426	.8422	176	174.1613	1.0731	.3672
137	132.8253	1.0435	.8337	177	175.2344	1.0737	.3526
138	133.8688	1.0447	.8251	178	176.3081	1.0740	.3378
139	134.9135	1.0456	.8161	179	177.3821	1.0744	.3231
140	135.9591	1.0466	.8070	180	178.4565	1.0748	.3082
141	137.0057	1.0476	.7977	181	179.5313	1.0752	.2933
142	138.0533	1.0486	.7882	182	180.6065	1.0755	.2783
143	139.1019	1.0495	.7784	183	181.6820	1.0758	.2632
144	140.1514	1.0505	.7686	184	182.7578	1.0762	.2481
145	141.2019	1.0514	.7585	185	183.8340	1.0764	.2328
146	142.2533	1.0523	.7482	186	184.9104	1.0767	.2176
147	143.3056	1.0533	.7378	187	185.9871	1.0770	.2023
148	144.3589	1.0542	.7271	188	187.0641	1.0771	.1869
149	145.4131	1.0550	.7163	189	188.1412	1.0774	.1715
150	146.4681	1.0559	.7053	190	189.2186	1.0776	.1561
151	147.5240	1.0568	.6942	191	190.2962	1.0778	.1406
152	148.5808	1.0576	.6828	192	191.3740	1.0779	.1250
153	149.6384	1.0584	.6713	193	192.4519	1.0780	.1095
154	150.6968	1.0593	.6597	194	193.5299	1.0782	.0939
155	151.7561	1.0601	.6478	195	194.6081	1.0783	.0783
156	152.8162	1.0608	.6358	196	195.6864	1.0783	.0626
157	153.8770	1.0616	.6237	197	196.7647	1.0784	.0470
158	154.9386	1.0624	.6114	198	197.8431	1.0784	.0313
159	156.0010	1.0631	.5989	199	198.9215	1.0785	.0157
160	157.0641	1.0638	.5863	200	200.0000	1.0785	.0000

$e = 96^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.9372	.0000	40	37.6504	.9495	.5869
1	.9372	.9372	.0157	41	38.5999	.9501	.5995
2	1.8744	.9373	.0314	42	39.5500	.9507	.6120
3	2.8117	.9373	.0470	43	40.5007	.9513	.6243
4	3.7490	.9374	.0627	44	41.4520	.9519	.6364
5	4.6864	.9374	.0783	45	42.4039	.9526	.6485
6	5.6238	.9376	.0940	46	43.3565	.9532	.6603
7	6.5614	.9376	.1095	47	44.3097	.9539	.6720
8	7.4990	.9378	.1251	48	45.2636	.9546	.6835
9	8.4368	.9379	.1407	49	46.2182	.9552	.6948
10	9.3747	.9380	.1562	50	47.1734	.9560	.7061
11	10.3127	.9383	.1717	51	48.1294	.9566	.7170
12	11.2510	.9384	.1871	52	49.0860	.9574	.7279
13	12.1894	.9386	.2025	53	50.0434	.9581	.7385
14	13.1280	.9388	.2178	54	51.0015	.9589	.7490
15	14.0668	.9391	.2331	55	51.9604	.9596	.7592
16	15.0059	.9393	.2483	56	52.9200	.9603	.7693
17	15.9452	.9396	.2635	57	53.8803	.9612	.7793
18	16.8848	.9398	.2785	58	54.8415	.9619	.7889
19	17.8246	.9401	.2936	59	55.8034	.9627	.7984
20	18.7647	.9405	.3086	60	56.7661	.9635	.8077
21	19.7052	.9407	.3234	61	57.7296	.9643	.8169
22	20.6459	.9411	.3383	62	58.6939	.9651	.8258
23	21.5870	.9415	.3530	63	59.6590	.9659	.8345
24	22.5285	.9418	.3675	64	60.6249	.9668	.8431
25	23.4703	.9422	.3821	65	61.5917	.9676	.8513
26	24.4125	.9425	.3965	66	62.5593	.9685	.8594
27	25.3550	.9430	.4109	67	63.5278	.9693	.8673
28	26.2980	.9434	.4251	68	64.4971	.9702	.8750
29	27.2414	.9438	.4393	69	65.4673	.9710	.8824
30	28.1852	.9443	.4533	70	66.4383	.9720	.8897
31	29.1295	.9448	.4672	71	67.4103	.9728	.8966
32	30.0743	.9452	.4810	72	68.3831	.9737	.9034
33	31.0195	.9457	.4947	73	69.3568	.9746	.9100
34	31.9652	.9462	.5082	74	70.3314	.9755	.9164
35	32.9114	.9467	.5217	75	71.3069	.9764	.9225
36	33.8581	.9473	.5350	76	72.2833	.9774	.9284
37	34.8054	.9477	.5481	77	73.2607	.9783	.9340
38	35.7531	.9484	.5613	78	74.2390	.9791	.9394
39	36.7015	.9489	.5741	79	75.2181	.9802	.9447
40	37.6504	.9495	.5869	80	76.1983	.9810	.9496

$e = 96^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	76.1983	.9810	.9496	120	116.1983	1.0198	.9496
81	77.1793	.9821	.9544	121	117.2181	1.0209	.9447
82	78.1614	.9829	.9588	122	118.2390	1.0217	.9394
83	79.1443	.9839	.9631	123	119.2607	1.0226	.9340
84	80.1282	.9849	.9671	124	120.2833	1.0236	.9284
85	81.1131	.9858	.9709	125	121.3069	1.0245	.9225
86	82.0989	.9868	.9744	126	122.3314	1.0254	.9164
87	83.0857	.9877	.9777	127	123.3568	1.0263	.9100
88	84.0734	.9888	.9808	128	124.3831	1.0272	.9034
89	85.0622	.9896	.9836	129	125.4103	1.0280	.8966
90	86.0518	.9907	.9862	130	126.4383	1.0290	.8897
91	87.0425	.9917	.9885	131	127.4673	1.0298	.8824
92	88.0342	.9926	.9906	132	128.4971	1.0307	.8750
93	89.0268	.9936	.9924	133	129.5278	1.0315	.8673
94	90.0204	.9946	.9940	134	130.5593	1.0324	.8594
95	91.0150	.9955	.9954	135	131.5917	1.0332	.8513
96	92.0105	.9966	.9965	136	132.6249	1.0341	.8431
97	93.0071	.9975	.9973	137	133.6590	1.0349	.8345
98	94.0046	.9985	.9980	138	134.6939	1.0357	.8258
99	95.0031	.9995	.9984	139	135.7296	1.0365	.8169
100	96.0026	1.0005	.9985	140	136.7661	1.0373	.8077
101	97.0031	1.0015	.9984	141	137.8034	1.0381	.7984
102	98.0046	1.0025	.9980	142	138.8415	1.0388	.7889
103	99.0071	1.0034	.9973	143	139.8803	1.0397	.7793
104	100.0105	1.0045	.9965	144	140.9200	1.0404	.7693
105	101.0150	1.0054	.9954	145	141.9604	1.0411	.7592
106	102.0204	1.0064	.9940	146	143.0015	1.0419	.7490
107	103.0268	1.0074	.9924	147	144.0434	1.0426	.7385
108	104.0342	1.0083	.9906	148	145.0860	1.0434	.7279
109	105.0425	1.0093	.9885	149	146.1294	1.0440	.7170
110	106.0518	1.0104	.9862	150	147.1734	1.0448	.7061
111	107.0622	1.0112	.9836	151	148.2182	1.0454	.6948
112	108.0734	1.0123	.9808	152	149.2636	1.0461	.6835
113	109.0857	1.0132	.9777	153	150.3097	1.0468	.6720
114	110.0989	1.0142	.9744	154	151.3565	1.0474	.6603
115	111.1131	1.0151	.9709	155	152.4039	1.0481	.6485
116	112.1282	1.0161	.9671	156	153.4520	1.0487	.6364
117	113.1443	1.0171	.9631	157	154.5007	1.0493	.6243
118	114.1614	1.0179	.9588	158	155.5500	1.0499	.6120
119	115.1793	1.0190	.9544	159	156.5999	1.0505	.5995
120	116.1983	1.0198	.9496	160	157.6504	1.0511	.5869

$e = 96^c$				$e = 97^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	157.6504	1.0511	.5869	0	.0000	.9529	.0000
161	158.7015	1.0516	.5741	1	.9529	.9529	.0157
162	159.7531	1.0523	.5613	2	1.9058	.9529	.0314
163	160.8054	1.0527	.5481	3	2.8587	.9530	.0471
164	161.8581	1.0533	.5350	4	3.8117	.9530	.0627
165	162.9114	1.0538	.5217	5	4.7647	.9531	.0784
166	163.9652	1.0543	.5082	6	5.7178	.9531	.0940
167	165.0195	1.0548	.4947	7	6.6709	.9532	.1097
168	166.0743	1.0552	.4810	8	7.6241	.9534	.1253
169	167.1295	1.0557	.4672	9	8.5775	.9534	.1407
170	168.1852	1.0562	.4533	10	9.5309	.9535	.1563
171	169.2414	1.0566	.4393	11	10.4844	.9537	.1718
172	170.2980	1.0570	.4251	12	11.4381	.9538	.1872
173	171.3550	1.0575	.4109	13	12.3919	.9539	.2026
174	172.4125	1.0578	.3965	14	13.3458	.9541	.2180
175	173.4703	1.0582	.3821	15	14.2999	.9543	.2333
176	174.5285	1.0585	.3675	16	15.2542	.9545	.2485
177	175.5870	1.0589	.3530	17	16.2087	.9546	.2636
178	176.6459	1.0593	.3383	18	17.1633	.9549	.2788
179	177.7052	1.0595	.3234	19	18.1182	.9551	.2938
180	178.7647	1.0599	.3086	20	19.0733	.9553	.3088
181	179.8246	1.0602	.2936	21	20.0286	.9556	.3237
182	180.8848	1.0604	.2785	22	20.9842	.9558	.3384
183	181.9452	1.0607	.2635	23	21.9400	.9560	.3532
184	183.0059	1.0609	.2483	24	22.8960	.9564	.3679
185	184.0668	1.0612	.2331	25	23.8524	.9566	.3824
186	185.1280	1.0614	.2178	26	24.8090	.9569	.3968
187	186.1894	1.0616	.2025	27	25.7659	.9572	.4112
188	187.2510	1.0617	.1871	28	26.7231	.9576	.4255
189	188.3127	1.0620	.1717	29	27.6807	.9578	.4396
190	189.3747	1.0621	.1562	30	28.6385	.9582	.4537
191	190.4368	1.0622	.1407	31	29.5967	.9586	.4676
192	191.4990	1.0624	.1251	32	30.5553	.9589	.4814
193	192.5614	1.0624	.1095	33	31.5142	.9592	.4950
194	193.6238	1.0626	.0940	34	32.4734	.9597	.5087
195	194.6864	1.0626	.0783	35	33.4331	.9600	.5221
196	195.7490	1.0627	.0627	36	34.3931	.9604	.5354
197	196.8117	1.0627	.0470	37	35.3535	.9609	.5486
198	197.8744	1.0628	.0314	38	36.3144	.9612	.5616
199	198.9372	1.0628	.0157	39	37.2756	.9617	.5746
200	200.0000	1.0628	.0000	40	38.2373	.9621	.5873



$e = 97^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	38.2373	.9621	.5873	80	77.1479	.9858	.9503
41	39.1994	.9626	.6000	81	78.1337	.9865	.9550
42	40.1620	.9630	.6124	82	79.1202	.9872	.9595
43	41.1250	.9634	.6247	83	80.1074	.9879	.9638
44	42.0884	.9640	.6370	84	81.0953	.9887	.9679
45	43.0524	.9644	.6489	85	82.0840	.9893	.9716
46	44.0168	.9649	.6608	86	83.0733	.9901	.9752
47	44.9817	.9654	.6725	87	84.0634	.9908	.9785
48	45.9471	.9659	.6840	88	85.0542	.9916	.9815
49	46.9130	.9665	.6954	89	86.0458	.9922	.9843
50	47.8795	.9669	.7065	90	87.0380	.9930	.9869
51	48.8464	.9675	.7176	91	88.0310	.9938	.9893
52	49.8139	.9680	.7284	92	89.0248	.9944	.9913
53	50.7819	.9686	.7391	93	90.0192	.9952	.9932
54	51.7505	.9691	.7495	94	91.0144	.9960	.9948
55	52.7196	.9697	.7598	95	92.0104	.9966	.9961
56	53.6893	.9703	.7699	96	93.0070	.9974	.9973
57	54.6596	.9708	.7798	97	94.0044	.9982	.9981
58	55.6304	.9714	.7895	98	95.0026	.9989	.9987
59	56.6018	.9720	.7991	99	96.0015	.9996	.9991
60	57.5738	.9727	.8084	100	97.0011	1.0004	.9992
61	58.5465	.9732	.8175	101	98.0015	1.0011	.9991
62	59.5197	.9738	.8264	102	99.0026	1.0018	.9987
63	60.4935	.9745	.8352	103	100.0044	1.0026	.9981
64	61.4680	.9750	.8436	104	101.0070	1.0034	.9973
65	62.4430	.9757	.8520	105	102.0104	1.0040	.9961
66	63.4187	.9764	.8601	106	103.0144	1.0048	.9948
67	64.3951	.9770	.8679	107	104.0192	1.0056	.9932
68	65.3721	.9776	.8756	108	105.0248	1.0062	.9913
69	66.3497	.9783	.8831	109	106.0310	1.0070	.9893
70	67.3280	.9789	.8903	110	107.0380	1.0078	.9869
71	68.3069	.9796	.8973	111	108.0458	1.0084	.9843
72	69.2865	.9803	.9041	112	109.0542	1.0092	.9815
73	70.2668	.9810	.9107	113	110.0634	1.0099	.9785
74	71.2478	.9816	.9170	114	111.0733	1.0107	.9752
75	72.2294	.9823	.9231	115	112.0840	1.0113	.9716
76	73.2117	.9830	.9291	116	113.0953	1.0121	.9679
77	74.1947	.9837	.9347	117	114.1074	1.0128	.9638
78	75.1784	.9844	.9401	118	115.1202	1.0135	.9595
79	76.1628	.9851	.9453	119	116.1337	1.0142	.9550
80	77.1479	.9858	.9503	120	117.1479	1.0149	.9503

$e = 97^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	117.1479	1.0149	.9503	160	158.2373	1.0383	.5873
121	118.1628	1.0156	.9453	161	159.2756	1.0388	.5746
122	119.1784	1.0163	.9401	162	160.3144	1.0391	.5616
123	120.1947	1.0170	.9347	163	161.3535	1.0396	.5486
124	121.2117	1.0177	.9291	164	162.3931	1.0400	.5354
125	122.2294	1.0184	.9231	165	163.4331	1.0403	.5221
126	123.2478	1.0190	.9170	166	164.4734	1.0408	.5087
127	124.2668	1.0197	.9107	167	165.5142	1.0411	.4950
128	125.2865	1.0204	.9041	168	166.5553	1.0414	.4814
129	126.3069	1.0211	.8973	169	167.5967	1.0418	.4676
130	127.3280	1.0217	.8903	170	168.6385	1.0422	.4537
131	128.3497	1.0224	.8831	171	169.6807	1.0424	.4396
132	129.3721	1.0230	.8756	172	170.7231	1.0428	.4255
133	130.3951	1.0236	.8679	173	171.7659	1.0431	.4112
134	131.4187	1.0243	.8601	174	172.8090	1.0434	.3968
135	132.4430	1.0250	.8520	175	173.8524	1.0436	.3824
136	133.4680	1.0255	.8436	176	174.8960	1.0440	.3679
137	134.4935	1.0262	.8352	177	175.9400	1.0442	.3532
138	135.5197	1.0268	.8264	178	176.9842	1.0444	.3384
139	136.5465	1.0273	.8175	179	178.0286	1.0447	.3237
140	137.5738	1.0280	.8084	180	179.0733	1.0449	.3088
141	138.6018	1.0286	.7991	181	180.1182	1.0451	.2938
142	139.6304	1.0292	.7895	182	181.1633	1.0454	.2788
143	140.6596	1.0297	.7798	183	182.2087	1.0455	.2636
144	141.6893	1.0303	.7699	184	183.2542	1.0457	.2485
145	142.7196	1.0309	.7598	185	184.2999	1.0459	.2333
146	143.7505	1.0314	.7495	186	185.3458	1.0461	.2180
147	144.7819	1.0320	.7391	187	186.3919	1.0462	.2026
148	145.8139	1.0325	.7284	188	187.4381	1.0463	.1872
149	146.8464	1.0331	.7176	189	188.4844	1.0465	.1718
150	147.8795	1.0335	.7065	190	189.5309	1.0466	.1563
151	148.9130	1.0341	.6954	191	190.5775	1.0466	.1407
152	149.9471	1.0346	.6840	192	191.6241	1.0468	.1253
153	150.9817	1.0351	.6725	193	192.6709	1.0469	.1097
154	152.0168	1.0356	.6608	194	193.7178	1.0469	.0940
155	153.0524	1.0360	.6489	195	194.7647	1.0470	.0784
156	154.0884	1.0366	.6370	196	195.8117	1.0470	.0627
157	155.1250	1.0370	.6247	197	196.8587	1.0471	.0471
158	156.1620	1.0374	.6124	198	197.9058	1.0471	.0314
159	157.1994	1.0379	.6000	199	198.9529	1.0471	.0157
160	158.2373	1.0383	.5873	200	200.0000	1.0471	.0000

$e = 98^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
0	.0000	.9686	.0000	40	38.8246	.9748	.5876
1	.9686	.9686	.0157	41	39.7994	.9750	.6002
2	1.9372	.9686	.0314	42	40.7744	.9753	.6127
3	2.9058	.9686	.0471	43	41.7497	.9757	.6251
4	3.8744	.9687	.0628	44	42.7254	.9759	.6372
5	4.8431	.9687	.0784	45	43.7013	.9763	.6493
6	5.8118	.9688	.0941	46	44.6776	.9766	.6611
7	6.7806	.9688	.1097	47	45.6542	.9769	.6728
8	7.7494	.9688	.1253	48	46.6311	.9773	.6844
9	8.7182	.9690	.1409	49	47.6084	.9776	.6957
10	9.6872	.9690	.1564	50	48.5860	.9780	.7069
11	10.6562	.9691	.1719	51	49.5640	.9783	.7179
12	11.6253	.9692	.1873	52	50.5423	.9787	.7288
13	12.5945	.9693	.2027	53	51.5210	.9790	.7394
14	13.5638	.9694	.2181	54	52.5000	.9794	.7499
15	14.5332	.9695	.2334	55	53.4794	.9798	.7602
16	15.5027	.9696	.2486	56	54.4592	.9802	.7703
17	16.4723	.9698	.2638	57	55.4394	.9805	.7802
18	17.4421	.9699	.2789	58	56.4199	.9810	.7900
19	18.4120	.9701	.2940	59	57.4009	.9813	.7994
20	19.3821	.9702	.3089	60	58.3822	.9818	.8088
21	20.3523	.9703	.3238	61	59.3640	.9821	.8179
22	21.3226	.9706	.3387	62	60.3461	.9826	.8269
23	22.2932	.9707	.3533	63	61.3287	.9829	.8355
24	23.2639	.9709	.3680	64	62.3116	.9834	.8441
25	24.2348	.9710	.3825	65	63.2950	.9838	.8524
26	25.2058	.9713	.3971	66	64.2788	.9842	.8605
27	26.1771	.9715	.4114	67	65.2630	.9847	.8684
28	27.1486	.9717	.4256	68	66.2477	.9851	.8760
29	28.1203	.9719	.4398	69	67.2328	.9855	.8835
30	29.0922	.9721	.4538	70	68.2183	.9859	.8907
31	30.0643	.9724	.4678	71	69.2042	.9864	.8978
32	31.0367	.9725	.4816	72	70.1906	.9869	.9046
33	32.0092	.9729	.4954	73	71.1775	.9873	.9111
34	32.9821	.9731	.5089	74	72.1648	.9877	.9175
35	33.9552	.9733	.5223	75	73.1525	.9883	.9237
36	34.9285	.9736	.5357	76	74.1408	.9886	.9295
37	35.9021	.9739	.5489	77	75.1294	.9891	.9352
38	36.8760	.9742	.5619	78	76.1185	.9896	.9407
39	37.8502	.9744	.5748	79	77.1081	.9901	.9459
40	38.8246	.9748	.5876	80	78.0982	.9905	.9508

$e = 98^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
80	78.0982	.9905	.9508	120	118.0982	1.0099	.9508
81	79.0887	.9910	.9555	121	119.1081	1.0104	.9459
82	80.0797	.9915	.9600	122	120.1185	1.0109	.9407
83	81.0712	.9920	.9643	123	121.1294	1.0114	.9352
84	82.0632	.9924	.9683	124	122.1408	1.0117	.9295
85	83.0556	.9929	.9721	125	123.1525	1.0123	.9237
86	84.0485	.9934	.9756	126	124.1648	1.0127	.9175
87	85.0419	.9938	.9789	127	125.1775	1.0131	.9111
88	86.0357	.9944	.9821	128	126.1906	1.0136	.9046
89	87.0301	.9948	.9848	129	127.2042	1.0141	.8978
90	88.0249	.9954	.9875	130	128.2183	1.0145	.8907
91	89.0203	.9958	.9897	131	129.2328	1.0149	.8835
92	90.0161	.9963	.9918	132	130.2477	1.0153	.8760
93	91.0124	.9968	.9937	133	131.2630	1.0158	.8684
94	92.0092	.9973	.9953	134	132.2788	1.0162	.8605
95	93.0065	.9978	.9966	135	133.2950	1.0166	.8524
96	94.0043	.9982	.9977	136	134.3116	1.0171	.8441
97	95.0025	.9988	.9987	137	135.3287	1.0174	.8355
98	96.0013	.9993	.9992	138	136.3461	1.0179	.8269
99	97.0006	.9997	.9996	139	137.3640	1.0182	.8179
100	98.0003	1.0003	.9997	140	138.3822	1.0187	.8088
101	99.0006	1.0007	.9996	141	139.4009	1.0190	.7994
102	100.0013	1.0012	.9992	142	140.4199	1.0195	.7900
103	101.0025	1.0018	.9987	143	141.4394	1.0198	.7802
104	102.0043	1.0022	.9977	144	142.4592	1.0202	.7703
105	103.0065	1.0027	.9966	145	143.4794	1.0206	.7602
106	104.0092	1.0032	.9953	146	144.5000	1.0210	.7499
107	105.0124	1.0037	.9937	147	145.5210	1.0213	.7394
108	106.0161	1.0042	.9918	148	146.5423	1.0217	.7288
109	107.0203	1.0046	.9897	149	147.5640	1.0220	.7179
110	108.0249	1.0052	.9875	150	148.5860	1.0224	.7069
111	109.0301	1.0056	.9848	151	149.6084	1.0227	.6957
112	110.0357	1.0062	.9821	152	150.6311	1.0231	.6844
113	111.0419	1.0066	.9789	153	151.6542	1.0234	.6728
114	112.0485	1.0071	.9756	154	152.6776	1.0237	.6611
115	113.0556	1.0076	.9721	155	153.7013	1.0241	.6493
116	114.0632	1.0080	.9683	156	154.7254	1.0243	.6372
117	115.0712	1.0085	.9643	157	155.7497	1.0247	.6251
118	116.0797	1.0090	.9600	158	156.7744	1.0250	.6127
119	117.0887	1.0095	.9555	159	157.7994	1.0252	.6002
120	118.0982	1.0099	.9508	160	158.8246	1.0256	.5876

$e = 98^c$				$e = 99^c$			
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
160	158.8246	1.0256	.5876	0	.0000	.9843	.0000
161	159.8502	1.0258	.5748	1	.9843	.9843	.0157
162	160.8760	1.0261	.5619	2	1.9686	.9843	.0314
163	161.9021	1.0264	.5489	3	2.9529	.9843	.0471
164	162.9285	1.0267	.5357	4	3.9372	.9843	.0628
165	163.9552	1.0269	.5223	5	4.9215	.9844	.0785
166	164.9821	1.0271	.5089	6	5.9059	.9844	.0941
167	166.0092	1.0275	.4954	7	6.8903	.9844	.1097
168	167.0367	1.0276	.4816	8	7.8747	.9844	.1253
169	168.0643	1.0279	.4678	9	8.8591	.9845	.1409
170	169.0922	1.0281	.4538	10	9.8436	.9845	.1564
171	170.1203	1.0283	.4398	11	10.8281	.9845	.1719
172	171.1486	1.0285	.4256	12	11.8126	.9846	.1874
173	172.1771	1.0287	.4114	13	12.7972	.9847	.2028
174	173.2058	1.0290	.3971	14	13.7819	.9847	.2181
175	174.2348	1.0291	.3825	15	14.7666	.9847	.2334
176	175.2639	1.0293	.3680	16	15.7513	.9848	.2487
177	176.2932	1.0294	.3533	17	16.7361	.9849	.2639
178	177.3226	1.0297	.3387	18	17.7210	.9850	.2790
179	178.3523	1.0298	.3238	19	18.7060	.9850	.2940
180	179.3821	1.0299	.3089	20	19.6910	.9851	.3090
181	180.4120	1.0301	.2940	21	20.6761	.9852	.3239
182	181.4421	1.0302	.2789	22	21.6613	.9852	.3387
183	182.4723	1.0304	.2638	23	22.6465	.9854	.3535
184	183.5027	1.0305	.2486	24	23.6319	.9854	.3681
185	184.5332	1.0306	.2334	25	24.6173	.9856	.3827
186	185.5638	1.0307	.2181	26	25.6029	.9856	.3971
187	186.5945	1.0308	.2027	27	26.5885	.9857	.4115
188	187.6253	1.0309	.1873	28	27.5742	.9859	.4258
189	188.6562	1.0310	.1719	29	28.5601	.9859	.4399
190	189.6872	1.0310	.1564	30	29.5460	.9861	.4540
191	190.7182	1.0312	.1409	31	30.5321	.9862	.4679
192	191.7494	1.0312	.1253	32	31.5183	.9863	.4817
193	192.7806	1.0312	.1097	33	32.5046	.9864	.4954
194	193.8118	1.0313	.0941	34	33.4910	.9865	.5090
195	194.8431	1.0313	.0784	35	34.4775	.9867	.5225
196	195.8744	1.0314	.0628	36	35.4642	.9868	.5358
197	196.9058	1.0314	.0471	37	36.4510	.9869	.5490
198	197.9372	1.0314	.0314	38	37.4379	.9871	.5621
199	198.9686	1.0314	.0157	39	38.4250	.9872	.5750
200	200.0000	1.0314	.0000	40	39.4122	.9874	.5878

$e = 99^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
40	39.4122	.9874	.5878	80	79.0490	.9952	.9510
41	40.3996	.9875	.6004	81	80.0442	.9955	.9558
42	41.3871	.9877	.6129	82	81.0397	.9958	.9603
43	42.3748	.9878	.6252	83	82.0355	.9960	.9645
44	43.3626	.9880	.6374	84	83.0315	.9962	.9685
45	44.3506	.9881	.6494	85	84.0277	.9964	.9723
46	45.3387	.9883	.6613	86	85.0241	.9967	.9759
47	46.3270	.9885	.6730	87	86.0208	.9970	.9792
48	47.3155	.9886	.6845	88	87.0178	.9971	.9822
49	48.3041	.9888	.6959	89	88.0149	.9975	.9851
50	49.2929	.9890	.7071	90	89.0124	.9976	.9876
51	50.2819	.9892	.7181	91	90.0100	.9979	.9900
52	51.2711	.9893	.7289	92	91.0079	.9982	.9921
53	52.2604	.9895	.7396	93	92.0061	.9984	.9939
54	53.2499	.9897	.7501	94	93.0045	.9986	.9955
55	54.2396	.9899	.7604	95	94.0031	.9989	.9969
56	55.2295	.9901	.7705	96	95.0020	.9992	.9980
57	56.2196	.9903	.7804	97	96.0012	.9993	.9988
58	57.2099	.9904	.7901	98	97.0005	.9997	.9995
59	58.2003	.9907	.7997	99	98.0002	.9998	.9998
60	59.1910	.9909	.8090	100	99.0000	1.0002	1.0000
61	60.1819	.9911	.8181	101	100.0002	1.0003	.9998
62	61.1730	.9912	.8270	102	101.0005	1.0007	.9995
63	62.1642	.9915	.8358	103	102.0012	1.0008	.9988
64	63.1557	.9917	.8443	104	103.0020	1.0011	.9980
65	64.1474	.9919	.8526	105	104.0031	1.0014	.9969
66	65.1393	.9921	.8607	106	105.0045	1.0016	.9955
67	66.1314	.9923	.8686	107	106.0061	1.0018	.9939
68	67.1237	.9926	.8763	108	107.0079	1.0021	.9921
69	68.1163	.9927	.8837	109	108.0100	1.0024	.9900
70	69.1090	.9930	.8910	110	109.0124	1.0025	.9876
71	70.1020	.9932	.8980	111	110.0149	1.0029	.9851
72	71.0952	.9934	.9048	112	111.0178	1.0030	.9822
73	72.0886	.9937	.9114	113	112.0208	1.0033	.9792
74	73.0823	.9939	.9177	114	113.0241	1.0036	.9759
75	74.0762	.9941	.9238	115	114.0277	1.0038	.9723
76	75.0703	.9943	.9297	116	115.0315	1.0040	.9685
77	76.0646	.9946	.9354	117	116.0355	1.0042	.9645
78	77.0592	.9948	.9408	118	117.0397	1.0045	.9603
79	78.0540	.9950	.9460	119	118.0442	1.0048	.9558
80	79.0490	.9952	.9510	120	119.0490	1.0050	.9510

$e = 99^c$							
Pos.	mean anom.	diff.	var.	Pos.	mean anom.	diff.	var.
120	119.0490	1.0050	.9510	160	159.4122	1.0128	.5878
121	120.0540	1.0052	.9460	161	160.4250	1.0129	.5750
122	121.0592	1.0054	.9408	162	161.4379	1.0131	.5621
123	122.0646	1.0057	.9354	163	162.4510	1.0132	.5490
124	123.0703	1.0059	.9297	164	163.4642	1.0133	.5358
125	124.0762	1.0061	.9238	165	164.4775	1.0135	.5225
126	125.0823	1.0063	.9177	166	165.4910	1.0136	.5090
127	126.0886	1.0066	.9114	167	166.5046	1.0137	.4954
128	127.0952	1.0068	.9048	168	167.5183	1.0138	.4817
129	128.1020	1.0070	.8980	169	168.5321	1.0139	.4679
130	129.1090	1.0073	.8910	170	169.5460	1.0141	.4540
131	130.1163	1.0074	.8837	171	170.5601	1.0141	.4399
132	131.1237	1.0077	.8763	172	171.5742	1.0143	.4258
133	132.1314	1.0079	.8686	173	172.5885	1.0144	.4115
134	133.1393	1.0081	.8607	174	173.6029	1.0144	.3971
135	134.1474	1.0083	.8526	175	174.6173	1.0146	.3827
136	135.1557	1.0085	.8443	176	175.6319	1.0146	.3681
137	136.1642	1.0088	.8358	177	176.6465	1.0148	.3535
138	137.1730	1.0089	.8270	178	177.6613	1.0148	.3387
139	138.1819	1.0091	.8181	179	178.6761	1.0149	.3239
140	139.1910	1.0093	.8090	180	179.6910	1.0150	.3090
141	140.2003	1.0096	.7997	181	180.7060	1.0150	.2940
142	141.2099	1.0097	.7901	182	181.7210	1.0151	.2790
143	142.2196	1.0099	.7804	183	182.7361	1.0152	.2639
144	143.2295	1.0101	.7705	184	183.7513	1.0153	.2487
145	144.2396	1.0103	.7604	185	184.7666	1.0153	.2334
146	145.2499	1.0105	.7501	186	185.7819	1.0153	.2181
147	146.2604	1.0107	.7396	187	186.7972	1.0154	.2028
148	147.2711	1.0108	.7289	188	187.8126	1.0155	.1874
149	148.2819	1.0110	.7181	189	188.8281	1.0155	.1719
150	149.2929	1.0112	.7071	190	189.8436	1.0155	.1564
151	150.3041	1.0114	.6959	191	190.8591	1.0156	.1409
152	151.3155	1.0115	.6845	192	191.8747	1.0156	.1253
153	152.3270	1.0117	.6730	193	192.8903	1.0156	.1097
154	153.3387	1.0119	.6613	194	193.9059	1.0156	.0941
155	154.3506	1.0120	.6494	195	194.9215	1.0157	.0785
156	155.3626	1.0122	.6374	196	195.9372	1.0157	.0628
157	156.3748	1.0123	.6252	197	196.9529	1.0157	.0471
158	157.3871	1.0125	.6129	198	197.9686	1.0157	.0314
159	158.3996	1.0126	.6004	199	198.9843	1.0157	.0157
160	159.4122	1.0128	.5878	200	200.0000	1.0157	.0000